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CALIBRATION LABORATORY

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Client   **CCS_CN**   Certificate No: **Z16-97078**

CALIBRATION CERTIFICATE

Object	D5GHzV2 - SN: 1095
Calibration Procedure(s)	FD-Z11-2-003-01 Calibration Procedures for dipole validation kits
Calibration date:	May 25, 2016

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)℃ and humidity<70%.
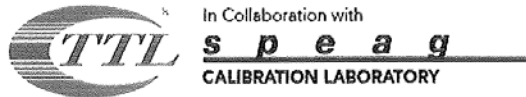
Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	01-Jul-15 (CTTL, No.J15X04256)	Jun-16
Power sensor NRP-Z91	101547	01-Jul-15 (CTTL, No.J15X04256)	Jun-16
ReferenceProbe EX3DV4	SN 7307	19-Feb-16(SPEAG,No.EX3-7307_Feb16)	Feb-17
DAE4	SN 771	02-Feb-16(CTTL-SPEAG,No.Z16-97011)	Feb-17

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	01-Feb-16 (CTTL, No.J16X00893)	Jan-17
NetworkAnalyzer E5071C	MY46110673	26-Jan-16 (CTTL, No.J16X00894)	Jan-17

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Qi Dianyuan	SAR Project Leader	
Approved by:	Lu Bingsong	Deputy Director of the laboratory	

Issued: May 31, 2016

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORMx,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:
a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) For hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:
e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:
- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.8.8.1258
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.8 ± 6 %	4.61 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.76 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	77.9 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.21 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	22.2 mW /g ± 22.2 % (k=2)

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.7 ± 6 %	4.71 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.07 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	81.0 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.30 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	23.1 mW /g ± 22.2 % (k=2)

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.4 ± 6 %	4.91 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.22 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	82.5 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.33 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	23.4 mW /g ± 22.2 % (k=2)

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Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.3 ± 6 %	5.01 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5600 MHz

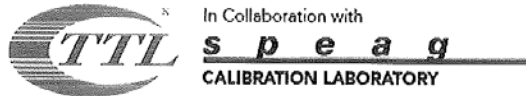| SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.19 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	82.2 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.33 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	23.4 mW /g ± 22.2 % (k=2)

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.1 ± 6 %	5.17 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.83 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	78.6 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.20 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	22.1 mW /g ± 22.2 % (k=2)

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Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.4 ± 6 %	5.39 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5200 MHz

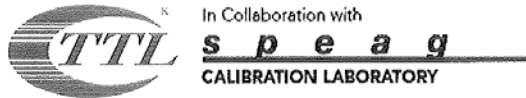| SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.47 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	74.5 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.14 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	21.4 mW /g ± 22.2 % (k=2)

Body TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.3 ± 6 %	5.51 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.74 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	77.2 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.20 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	22.0 mW /g ± 22.2 % (k=2)

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Body TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.6	5.65 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	49.1 ± 6 %	5.58 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5500 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.10 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	81.1 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.36 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	23.7 mW /g ± 22.2 % (k=2)

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	49.0 ± 6 %	5.70 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.97 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	79.8 mW /g ± 23.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.26 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	22.7 mW /g ± 22.2 % (k=2)

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Body TSL parameters at 5800 MHz
The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.7 ± 6 %	5.93 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.71 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	**77.2 mW /g ± 23.0 % (k=2)**
SAR averaged over 10 cm^3 (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.17 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	**21.8 mW /g ± 22.2 % (k=2)**

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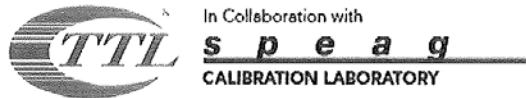E-mail: cttl@chinattl.com   Http://www.chinattl.cn

Appendix

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49.2Ω - 5.46jΩ
Return Loss	- 25.1dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	47.2Ω - 3.86jΩ
Return Loss	- 26.2dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	53.4Ω - 5.61jΩ
Return Loss	- 23.9dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	56.6Ω - 1.04jΩ
Return Loss	- 24.0dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	53.0Ω - 6.28jΩ
Return Loss	- 23.4dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	49.5Ω - 3.51jΩ
Return Loss	- 29.0dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	47.7Ω - 1.89jΩ
Return Loss	- 30.4dB

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Antenna Parameters with Body TSL at 5500 MHz

Impedance, transformed to feed point	54.0Ω - 3.83jΩ
Return Loss	- 25.5dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	59.3Ω + 0.88jΩ
Return Loss	- 21.4dB

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	55.1Ω - 6.15jΩ
Return Loss	- 22.4dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.308 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL   Date: 05.23.2016
Test Laboratory: CTTL, Beijing, China
DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1095
    Communication System: CW; Frequency: 5200 MHz, Frequency: 5300 MHz,
    Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz,
    Medium parameters used: f = 5200 MHz; σ = 4.614 mho/m; εr = 36.82; ρ = 1000
    kg/m3, Medium parameters used: f = 5300 MHz; σ = 4.713 mho/m; εr = 36.71; ρ =
    1000 kg/m3, Medium parameters used: f = 5500 MHz; σ = 4.911 mho/m; εr = 36.41;
    ρ = 1000 kg/m3,Medium parameters used: f = 5600 MHz; σ = 5.006 mho/m; εr =
    36.27; ρ = 1000 kg/m3, Medium parameters used: f = 5800 MHz; σ = 5.171 mho/m;
    εr = 36.05; ρ = 1000 kg/m3,
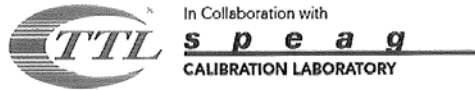   Phantom section: Center Section
    Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN7307; ConvF(5.32,5.32,5.32); Calibrated: 2016/2/19, ConvF(5.02,5.02,5.02); Calibrated: 2016/2/19, ConvF(4.85,4.85,4.85); Calibrated: 2016/2/19, ConvF(4.52,4.52,4.52); Calibrated: 2016/2/19, ConvF(4.45,4.45,4.45); Calibrated: 2016/2/19,
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2016/2/02
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Dipole Calibration /Pin=100mW, d=10mm, f=5200 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 71.75 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 31.7 W/kg
SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.21 W/kg
Maximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5300 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 73.42 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 33.6 W/kg
SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.3 W/kg
Maximum value of SAR (measured) = 19.5 W/kg

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Dipole Calibration /Pin=100mW, d=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.44 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 36.1 W/kg
SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.33 W/kg
Maximum value of SAR (measured) = 19.9 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.62 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 34.9 W/kg
SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.33 W/kg
Maximum value of SAR (measured) = 19.7 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.13 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 34.6 W/kg
SAR(1 g) = 7.83 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 19.3 W/kg

0 dB = 19.3 W/kg = 12.86 dBW/kg

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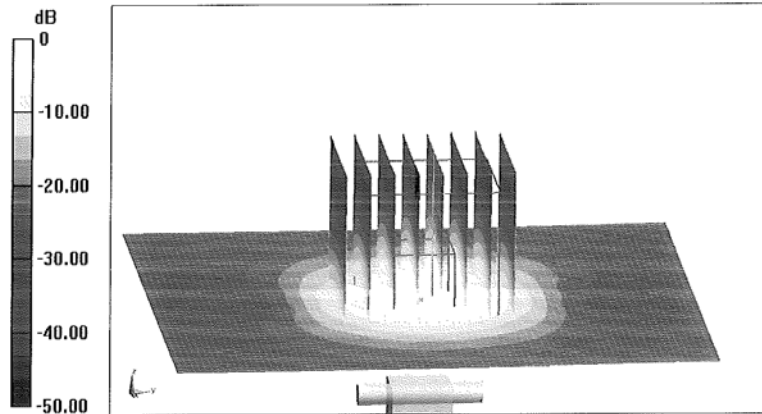**s p e a g**
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Impedance Measurement Plot for Head TSL

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]

1	5.2000000 GHz	-25.102 dB
2	5.3000000 GHz	-26.188 dB
3	5.5000000 GHz	-23.945 dB
4	5.6000000 GHz	-24.034 dB
>5	5.8000000 GHz	-23.416 dB

S11 Smith (R+jX) scale 1.000U [F1 Del]

1	5.2000000 GHz	49.185 Ω	-5.4603 Ω	5.6053 pF
2	5.3000000 GHz	47.200 Ω	-3.8631 Ω	7.7733 pF
3	5.5000000 GHz	53.440 Ω	-5.6064 Ω	5.1615 pF
4	5.6000000 GHz	56.621 Ω	-1.0375 Ω	27.393 pF
>5	5.8000000 GHz	53.000 Ω	-6.2849 Ω	4.3661 pF

1 Start 5 GHz   IFBW 100 Hz   Stop 6 GHz

Certificate No: Z16-97078   Page 13 of 16

In Collaboration with

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CALIBRATION LABORATORY

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
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E-mail: cttl@chinattl.com   Http://www.chinattl.cn

DASY5 Validation Report for Body TSL   Date: 05.25.2016
Test Laboratory: CTTL, Beijing, China
DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1095
    Communication System: CW; Frequency: 5200 MHz, Frequency: 5300 MHz,
    Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz,
    Medium parameters used: $f = 5200$ MHz; $\sigma = 5.391$ mho/m; $\varepsilon r = 48.36$; $\rho = 1000$
    kg/m3, Medium parameters used: $f = 5300$ MHz; $\sigma = 5.513$ mho/m; $\varepsilon r = 48.26$; $\rho =$
    1000 kg/m3, Medium parameters used: $f = 5500$ MHz; $\sigma = 5.582$ mho/m; $\varepsilon r = 49.14$;
    $\rho = 1000$ kg/m3,Medium parameters used: $f = 5600$ MHz; $\sigma = 5.703$ mho/m; $\varepsilon r =$
    49.04; $\rho = 1000$ kg/m3, Medium parameters used: $f = 5800$ MHz; $\sigma = 5.932$ mho/m;
    $\varepsilon r = 48.71$; $\rho = 1000$ kg/m3,
    Phantom section: Right Section
    Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN7307; ConvF(4.48,4.48,4.48); Calibrated: 2016/2/19, ConvF(4.29,4.29,4.29); Calibrated: 2016/2/19, ConvF(3.97,3.97,3.97); Calibrated: 2016/2/19, ConvF(3.72,3.72,3.72); Calibrated: 2016/2/19, ConvF(3.91,3.91,3.91); Calibrated: 2016/2/19,
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2016/2/02
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Dipole Calibration /Pin=100mW, d=10mm, f=5200 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.16 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.14 W/kg
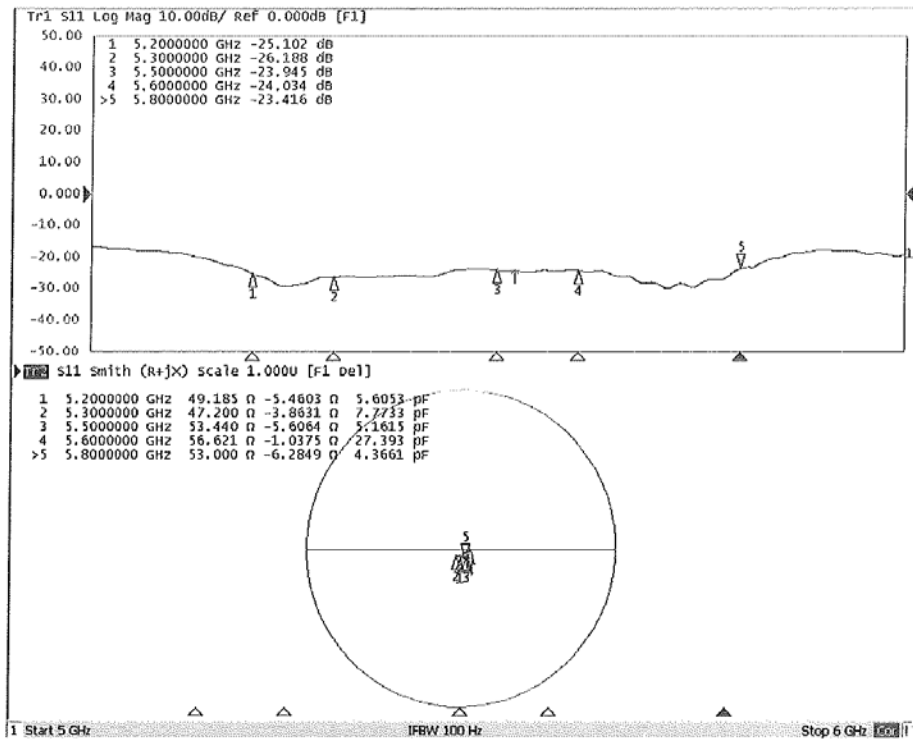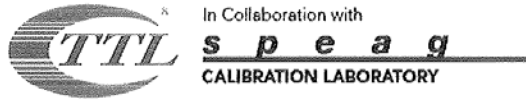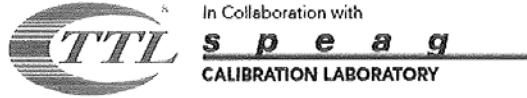Maximum value of SAR (measured) = 17.0 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5300 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.52 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 29.9 W/kg
SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 17.8 W/kg

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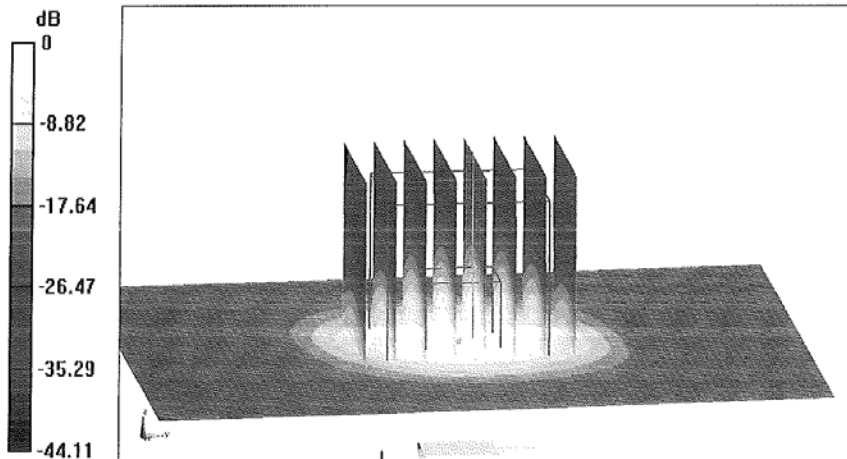
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Dipole Calibration /Pin=100mW, d=10mm, f=5500 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.84 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 30.8 W/kg
SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.36 W/kg
Maximum value of SAR (measured) = 18.5 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 69.68 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 30.8 W/kg
SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.26 W/kg
Maximum value of SAR (measured) = 18.5 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5800 MHz/Zoom Scan,
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 68.24 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 31.6 W/kg
SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.17 W/kg
Maximum value of SAR (measured) = 18.2 W/kg

0 dB = 18.2 W/kg = 12.60 dBW/kg

Certificate No: Z16-97078   Page 15 of 16

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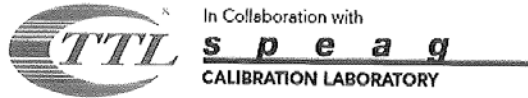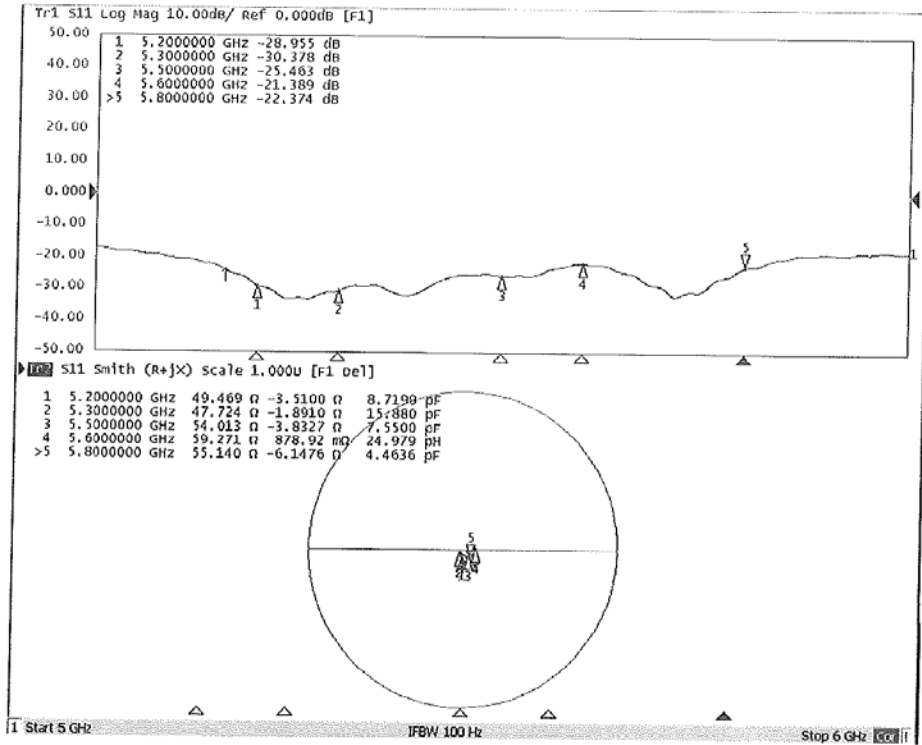E-mail: cttl@chinattl.com   Http://www.chinattl.cn

Impedance Measurement Plot for Body TSL

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]

1	5.2000000 GHz	-28.955 dB
2	5.3000000 GHz	-30.378 dB
3	5.5000000 GHz	-25.463 dB
4	5.6000000 GHz	-21.389 dB
>5	5.8000000 GHz	-22.374 dB

S11 Smith (R+jX) Scale 1.000U [F1 Del]

1	5.2000000 GHz	49.469 Ω	-3.5100 Ω	8.7199 pF
2	5.3000000 GHz	47.724 Ω	-1.8910 Ω	15.880 pF
3	5.5000000 GHz	54.013 Ω	-3.8327 Ω	7.5500 pF
4	5.6000000 GHz	59.271 Ω	878.92 mΩ	24.979 pH
>5	5.8000000 GHz	55.140 Ω	-6.1476 Ω	4.4636 pF

1 Start 5 GHz   IFBW 100 Hz   Stop 6 GHz Cor

Certificate No: Z16-97078   Page 16 of 16

D5GHzV2,Serial No.1095 Extended Dipole Calibrations

Per IEEE Std 1528-2013,the dipole should have a return loss better than -20dB at the test frequency to reduce uncertainty in the power measurement

Per KDB 865664 D01,if dipoles are verified in return loss(<-20dB,within 20% of prior calibration),and in impedance (within 5 ohm of prior calibration),the annual calibration is not necessary and the calibration interval can be extended.
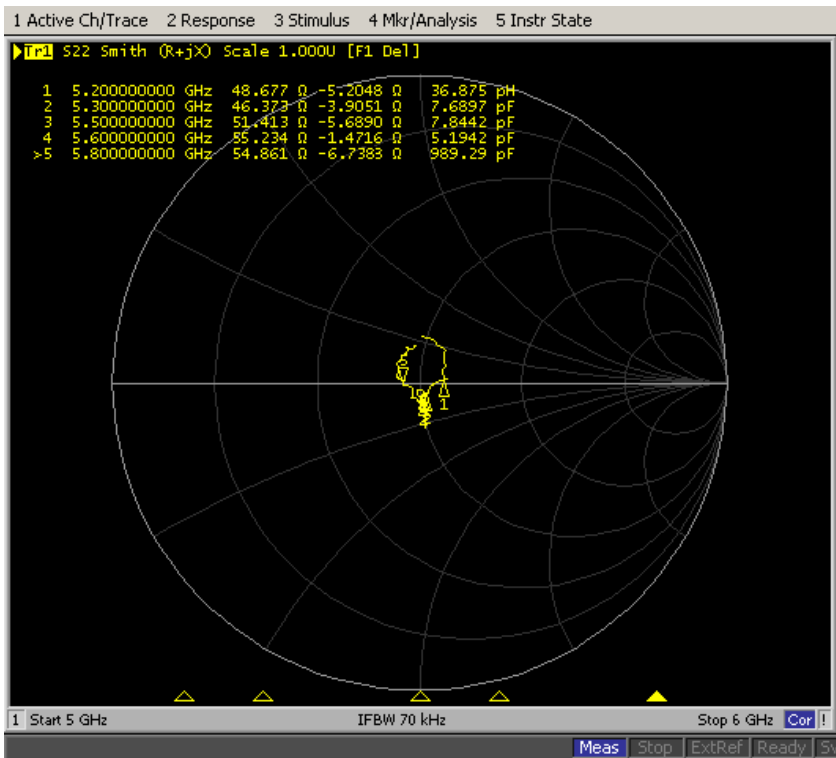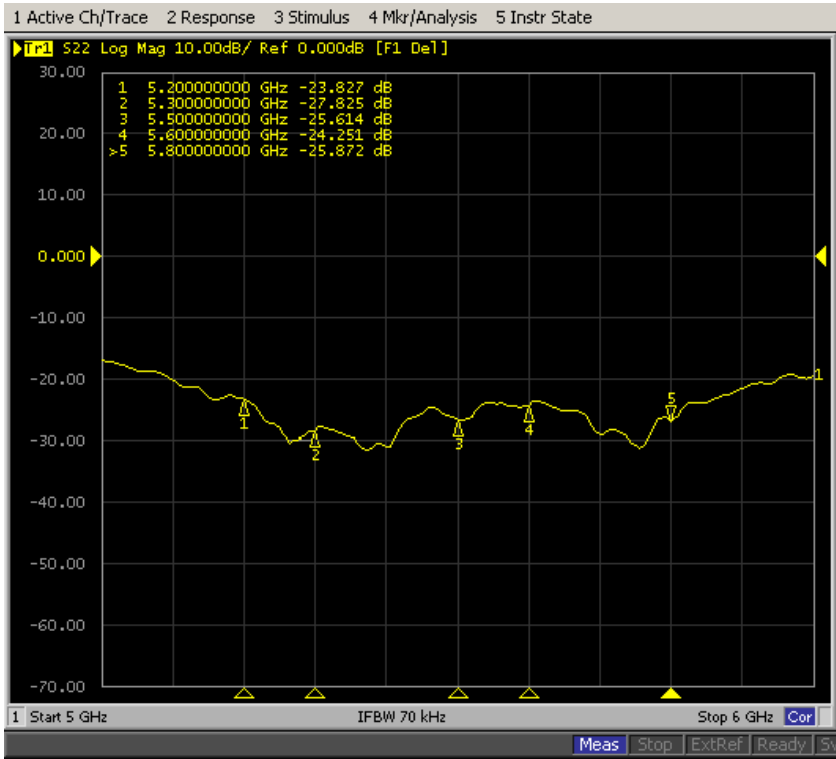
Justification of the extended calibration

D5GHzV2 Serial No.1095							
Head							
Date of Measurement		Return Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
5200MHz	5.25.2016	-25.102	--	49.185	--	-5.4603	--
	5.23.2017	-23.827	5.08	48.677	0.508	-5.2048	0.2555
5300MHz	5.25.2016	-26.188	--	47.200	--	-3.8631	--
	5.23.2017	-27.825	6.25	46.373	0.827	-3.9051	0.042
5500MHz	5.25.2016	-23.945	--	53.440	--	-5.6064	--
	5.23.2017	-25.614	6.97	51.413	2.027	-5.6890	0.0826
5600MHz	5.25.2016	-24.034	--	56.621	--	-1.0375	--
	5.23.2017	-24.251	0.90	55.234	1.387	-1.4716	0.4341
5800MHz	5.25.2016	-23.416	--	53.000	--	-6.2849	--
	5.23.2017	-25.872	10.5	54.861	1.861	-6.7383	0.4534

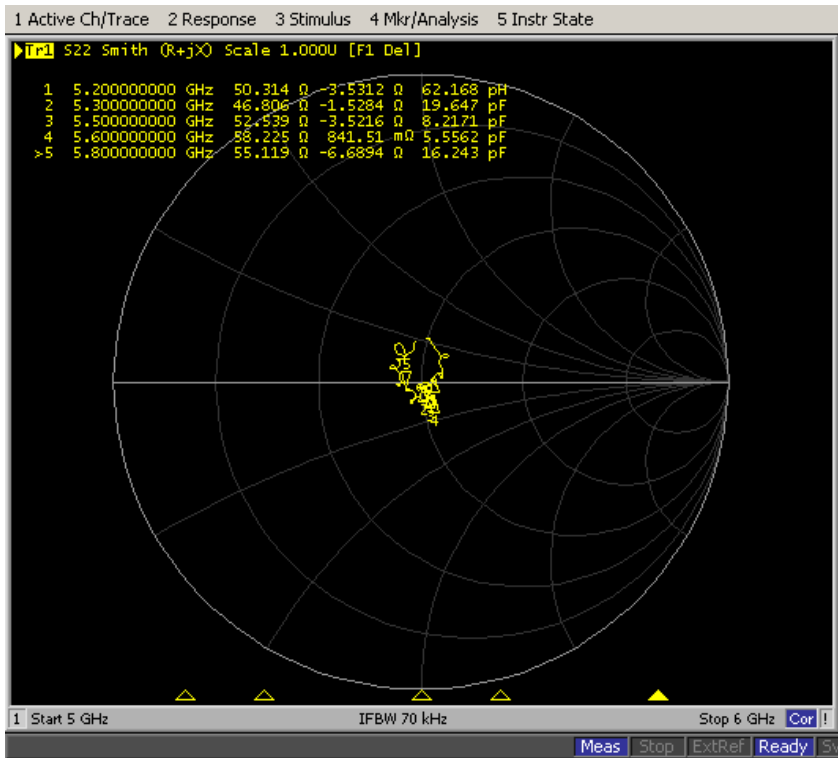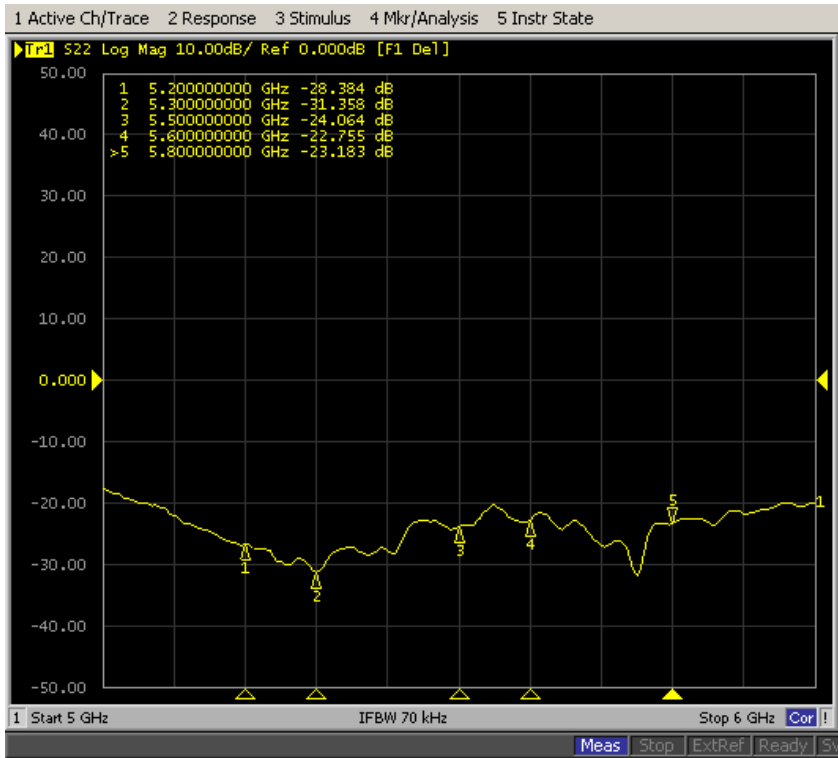| D5GHzV2 Serial No.1095						
Body						
Date of Measurement		Return Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
5200MHz	5.25.2016	-28.955	--	49.469	--	-3.5100	--
	5.23.2017	-28.384	1.97	50.314	0.845	-3.5312	0.0212
5300MHz	5.25.2016	-30.378	--	47.724	--	-1.8910	--
	5.23.2017	-31.358	3.22	46.806	0.918	-1.5284	0.3626
5500MHz	5.25.2016	-25.463	--	54.013	--	-3.8327	--
	5.23.2017	24.064	5.49	52.539	1.474	-3.5216	0.3111
5600MHz	5.25.2016	-21.389	--	59.271	--	0.8789	--
	5.23.2017	-22.755	6.39	58.225	1.046	0.8415	0.0374
5800MHz	5.25.2016	-22.374	--	55.140	--	-6.1476	--
	5.23.2017	-23.183	3.62	55.119	0.021	-6.6894	0.5418

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration.Therefore the verification result should support extended calibration.

Dipole Verification Data   D5GHzV2 Serial No.1095
D5GHzV2-Head

Dipole Verification Data   D5GHzV2 Serial No.1095

D5GHzV2-Body

1 Active Ch/Trace   2 Response   3 Stimulus   4 Mkr/Analysis   5 Instr State

Tr1 S22 Log Mag 10.00dB/ Ref 0.000dB [F1 Del]

1	5.200000000 GHz	-28.384 dB
2	5.300000000 GHz	-31.358 dB
3	5.500000000 GHz	-24.064 dB
4	5.600000000 GHz	-22.755 dB
>5	5.800000000 GHz	-23.183 dB

1 Start 5 GHz   IFBW 70 kHz   Stop 6 GHz Cor !

1 Active Ch/Trace   2 Response   3 Stimulus   4 Mkr/Analysis   5 Instr State

Tr1 S22 Smith (R+jX) Scale 1.000U [F1 Del]

1	5.200000000 GHz	50.314 Ω	-3.5312 Ω	62.168 pH
2	5.300000000 GHz	46.806 Ω	-1.5284 Ω	19.647 pF
3	5.500000000 GHz	52.539 Ω	-3.5216 Ω	8.2171 pF
4	5.600000000 GHz	58.225 Ω	841.51 mΩ	5.5562 pF
>5	5.800000000 GHz	55.119 Ω	-6.6894 Ω	16.243 pF

1 Start 5 GHz   IFBW 70 kHz   Stop 6 GHz Cor !

D5GHzV2,Serial No.1095 Extended Dipole Calibrations

Per IEEE Std 1528-2013,the dipole should have a return loss better than -20dB at the test frequency to reduce uncertainty in the power measurement

Per KDB 865664 D01,if dipoles are verified in return loss(<-20dB,within 20% of prior calibration),and in impedance (within 5 ohm of prior calibration),the annual calibration is not necessary and the calibration interval can be extended.
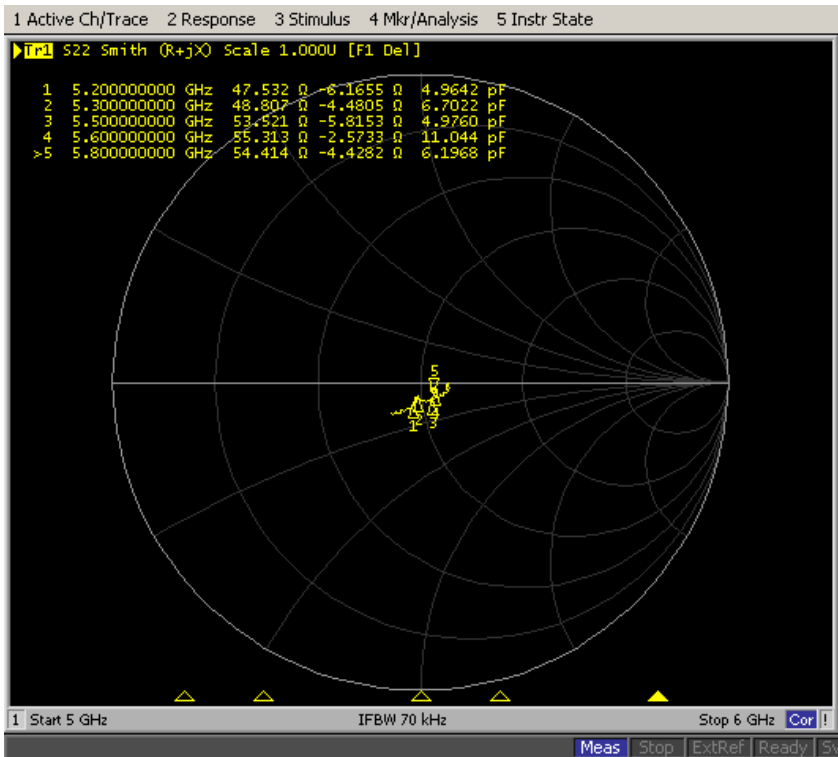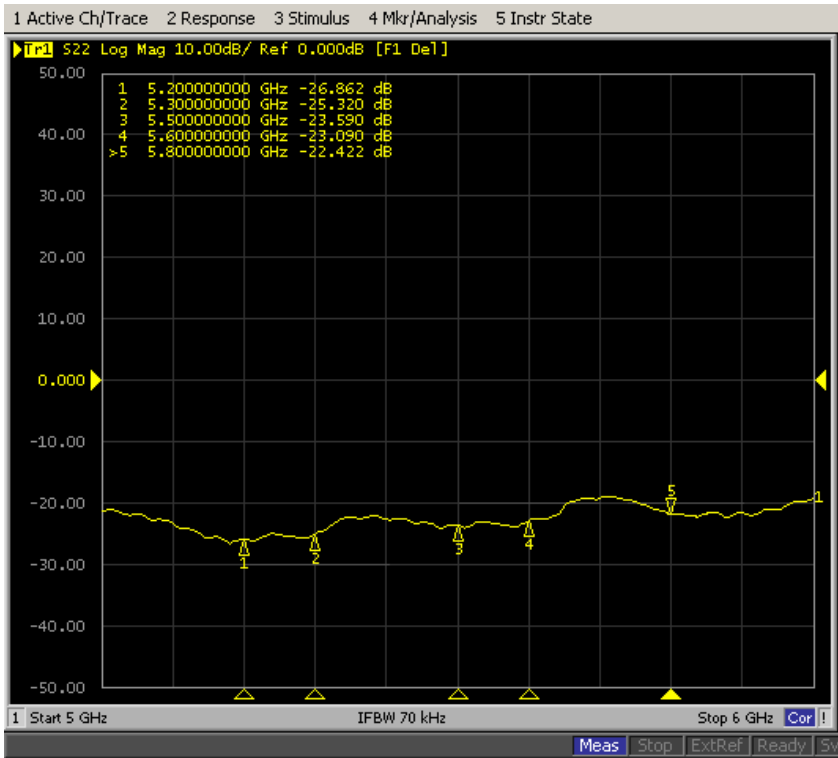
Justification of the extended calibration

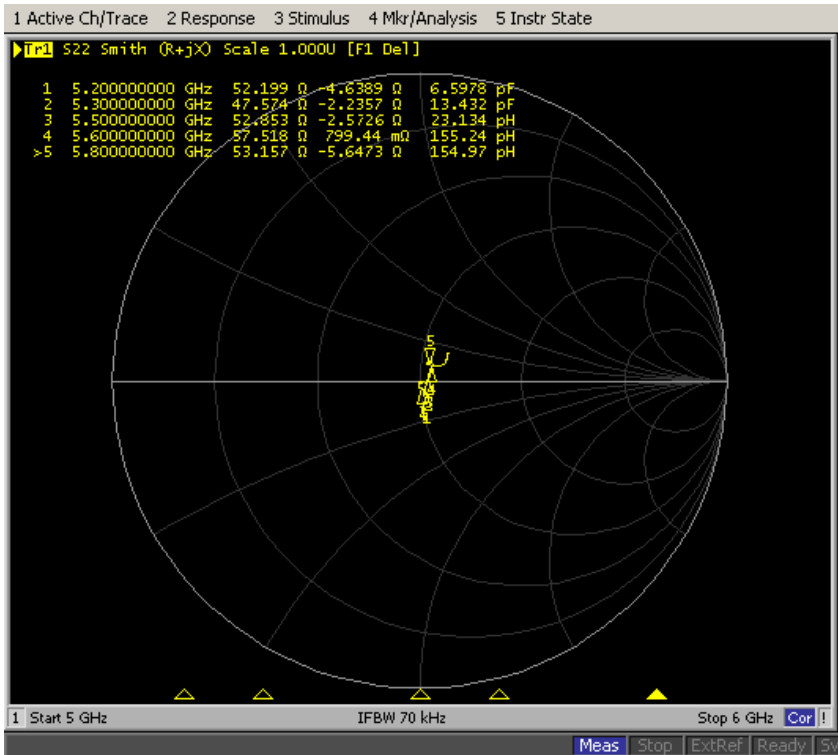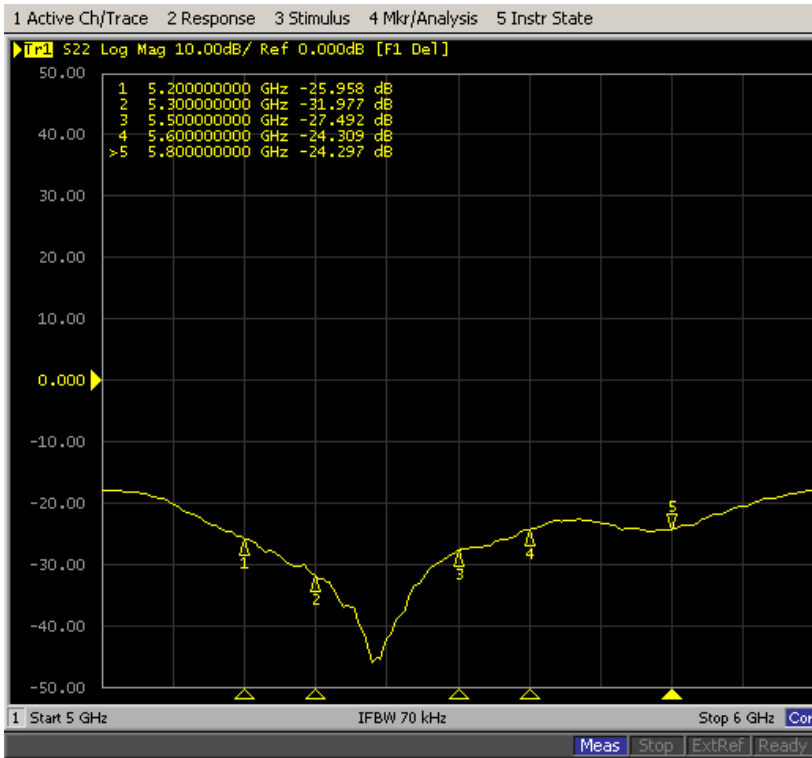| D5GHzV2 Serial No.1095							
Head							
Date of Measurement		Return Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
5200MHz	5.25.2016	-25.102	--	49.185	--	-5.4603	--
	5.23.2017	-23.827	5.08	48.677	0.508	-5.2048	0.2555
	5.22.2018	-26.862	12.7	47.532	1.145	-6.1655	0.9607
5300MHz	5.25.2016	-26.188	--	47.200	--	-3.8631	--
	5.23.2017	-27.825	6.25	46.373	0.827	-3.9051	0.042
	5.22.2018	-25.320	9.00	48.807	2.434	-4.4805	0.5754
5500MHz	5.25.2016	-23.945	--	53.440	--	-5.6064	--
	5.23.2017	-25.614	6.97	51.413	2.027	-5.6890	0.0826
	5.22.2018	-23.590	7.90	53.521	2.108	-5.8153	0.1263
5600MHz	5.25.2016	-24.034	--	56.621	--	-1.0375	--
	5.23.2017	-24.251	0.90	55.234	1.387	-1.4716	0.4341
	5.22.2018	-23.090	4.79	55.313	0.079	-2.5733	1.1017
5800MHz	5.25.2016	-23.416	--	53.000	--	-6.2849	--
	5.23.2017	-25.872	10.5	54.861	1.861	-6.7383	0.4534
	5.22.2018	-22.422	13.3	54.414	0.427	-4.4282	2.3101

D5GHzV2 Serial No.1095						
Body						
Date of Measurement		Return Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
5200MHz	5.25.2016	-28.955	--	49.469	--	-3.5100	--
	5.23.2017	-28.384	1.97	50.314	0.845	-3.5312	0.0212
	5.22.2018	-25.958	8.55	52.199	1.885	-4.6389	1.1077
5300MHz	5.25.2016	-30.378	--	47.724	--	-1.8910	--
	5.23.2017	-31.358	3.22	46.806	0.918	-1.5284	0.3626
	5.22.2018	-31.977	1.97	47.574	0.768	-2.2357	0.7073
5500MHz	5.25.2016	-25.463	--	54.013	--	-3.8327	--
	5.23.2017	-24.064	5.49	52.539	1.474	-3.5216	0.3111
	5.22.2018	-27.492	14.2	52.853	0.314	-2.5726	0.949
5600MHz	5.25.2016	-21.389	--	59.271	--	0.8789	--
	5.23.2017	-22.755	6.39	58.225	1.046	0.8415	0.0374
	5.22.2018	-24.309	6.83	57.518	0.707	0.7994	0.0421
5800MHz	5.25.2016	-22.374	--	55.140	--	-6.1476	--
	5.23.2017	-23.183	3.62	55.119	0.021	-6.6894	0.5418
	5.22.2018	-24.297	4.81	53.157	1.962	-5.6473	1.0421

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration.Therefore the verification result should support extended calibration.

Dipole Verification Data   D5GHzV2 Serial No.1095
D5GHzV2-Head

Dipole Verification Data   D5GHzV2 Serial No.1095
D5GHzV2-Body

1 Active Ch/Trace   2 Response   3 Stimulus   4 Mkr/Analysis   5 Instr State

Tr1 S22 Log Mag 10.00dB/ Ref 0.000dB [F1 Del]

```
1   5.200000000 GHz  -25.958 dB
2   5.300000000 GHz  -31.977 dB
3   5.500000000 GHz  -27.492 dB
4   5.600000000 GHz  -24.309 dB
>5  5.800000000 GHz  -24.297 dB
```

1 Start 5 GHz   IFBW 70 kHz   Stop 6 GHz Cor

Meas   Stop   ExtRef   Ready

1 Active Ch/Trace   2 Response   3 Stimulus   4 Mkr/Analysis   5 Instr State

Tr1 S22 Smith (R+jX) Scale 1.000U [F1 Del]

```
1   5.200000000 GHz   52.199 Ω  -4.6389 Ω    6.5978 pF
2   5.300000000 GHz   47.574 Ω  -2.2357 Ω    13.432 pF
3   5.500000000 GHz   52.853 Ω  -2.5726 Ω    23.134 pH
4   5.600000000 GHz   57.518 Ω   799.44 mΩ   155.24 pH
>5  5.800000000 GHz   53.157 Ω  -5.6473 Ω    154.97 pH
```

1 Start 5 GHz   IFBW 70 kHz   Stop 6 GHz Cor !

Meas   Stop   ExtRef   Ready   Sv

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 Engineering AG
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Accreditation No.: **SCS 0108**

Client   **Auden**

Certificate No: **DAE4-910_Jun18**

CALIBRATION CERTIFICATE

Object	DAE4 - SD 000 D04 BK - SN: 910
Calibration procedure(s)	QA CAL-06.v29 Calibration procedure for the data acquisition electronics (DAE)
Calibration date:	June 21, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	31-Aug-17 (No.21092)	Aug-18

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	04-Jan-18 (in house check)	In house check: Jan-19
Calibrator Box V2.1	SE UMS 006 AA 1002	04-Jan-18 (in house check)	In house check: Jan-19

	Name	Function	Signature
Calibrated by:	Dominique Steffen	Laboratory Technician	
Approved by:	Sven Kühn	Deputy Manager	

Issued: June 21, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-910_Jun18   Page 1 of 5

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   Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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C   Service suisse d'étalonnage
S   Servizio svizzero di taratura
S   Swiss Calibration Service

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Accreditation No.: **SCS 0108**

Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.

- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.

- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.

  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.

  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.

  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.

  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage

  - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.

  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.

  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.

  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.

  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-910_Jun18   Page 2 of 5

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:	1LSB =	6.1µV ,	full range =	-100…+300 mV
Low Range:	1LSB =	61nV ,	full range =	-1…….+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.316 ± 0.02% (k=2)	402.740 ± 0.02% (k=2)	403.223 ± 0.02% (k=2)
Low Range	3.98189 ± 1.50% (k=2)	3.94034 ± 1.50% (k=2)	3.94948 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	270.0 ° ± 1 °

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200036.85	-0.57	-0.00
Channel X	+ Input	20007.13	1.21	0.01
Channel X	- Input	-20003.15	2.23	-0.01
Channel Y	+ Input	200035.57	-4.86	-0.00
Channel Y	+ Input	20005.66	-0.36	-0.00
Channel Y	- Input	-20005.78	-0.47	0.00
Channel Z	+ Input	200031.43	-6.16	-0.00
Channel Z	+ Input	20004.85	-0.87	-0.00
Channel Z	- Input	-20006.04	-0.58	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.67	0.16	0.01
Channel X	+ Input	201.92	0.42	0.21
Channel X	- Input	-198.17	0.31	-0.16
Channel Y	+ Input	2001.38	-0.14	-0.01
Channel Y	+ Input	201.49	-0.03	-0.01
Channel Y	- Input	-198.91	-0.42	0.21
Channel Z	+ Input	2002.08	0.66	0.03
Channel Z	+ Input	199.86	-1.52	-0.75
Channel Z	- Input	-200.22	-1.73	0.87

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-12.45	-14.44
	- 200	16.44	14.50
Channel Y	200	6.37	5.97
	- 200	-7.85	-7.73
Channel Z	200	-11.52	-12.01
	- 200	10.51	10.13

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	4.62	-2.89
Channel Y	200	9.63	-	4.93
Channel Z	200	10.63	7.69	-

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16196	17184
Channel Y	15388	15032
Channel Z	16713	16294

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	1.84	0.59	3.46	0.62
Channel Y	1.42	0.15	2.77	0.52
Channel Z	-0.96	-2.82	0.61	0.60

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	−0.01	-8	-9

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Calibration Laboratory of
Schmid & Partner
  Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client   **Auden**

Certificate No: **EX3-3801_Jun18**

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3801
Calibration procedure(s)	QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	June 26, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: June 27, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Calibration Laboratory of
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Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below ConvF).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z:* A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy):* in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset:* The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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EX3DV4 – SN:3801

June 26, 2018

Probe EX3DV4

SN:3801

Manufactured: April 5, 2011
Calibrated: June 26, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

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EX3DV4– SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.53	0.57	0.52	± 10.1 %
DCP $(mV)^B$	101.8	101.3	96.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	166.4	±3.0 %
		Y	0.0	0.0	1.0		173.4	
		Z	0.0	0.0	1.0		164.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	43.02	327.9	36.76	18.19	0.894	5.085	0.000	0.523	1.011
Y	48.75	365.0	35.77	24.10	0.825	5.100	0.855	0.468	1.008
Z	43.58	332.6	36.84	15.47	0.783	5.090	0.000	0.516	1.010

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^{A} The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
^{B} Numerical linearization parameter: uncertainty not required.
^{E} Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)[C]	Relative Permittivity[F]	Conductivity (S/m)[F]	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unc (k=2)
150	52.3	0.76	11.05	11.05	11.05	0.00	1.00	± 13.3 %
450	43.5	0.87	9.90	9.90	9.90	0.15	1.30	± 13.3 %
750	41.9	0.89	9.50	9.50	9.50	0.43	0.96	± 12.0 %
835	41.5	0.90	9.08	9.08	9.08	0.51	0.85	± 12.0 %
900	41.5	0.97	8.95	8.95	8.95	0.51	0.87	± 12.0 %
1450	40.5	1.20	8.17	8.17	8.17	0.33	0.80	± 12.0 %
1750	40.1	1.37	8.10	8.10	8.10	0.39	0.84	± 12.0 %
1900	40.0	1.40	7.78	7.78	7.78	0.36	0.84	± 12.0 %
2100	39.8	1.49	7.90	7.90	7.90	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.08	7.08	7.08	0.35	0.86	± 12.0 %
2600	39.0	1.96	6.94	6.94	6.94	0.40	0.86	± 12.0 %
3500	37.9	2.91	6.88	6.88	6.88	0.25	1.20	± 13.1 %
5200	36.0	4.66	4.93	4.93	4.93	0.40	1.80	± 13.1 %
5300	35.9	4.76	4.70	4.70	4.70	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.82	4.82	4.82	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.69	4.69	4.69	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.61	4.61	4.61	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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SGS CCSRF

EX3DV4– SN:3801 | June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
150	61.9	0.80	10.74	10.74	10.74	0.00	1.00	± 13.3 %
450	56.7	0.94	10.16	10.16	10.16	0.09	1.25	± 13.3 %
750	55.5	0.96	9.19	9.19	9.19	0.49	0.83	± 12.0 %
835	55.2	0.97	9.04	9.04	9.04	0.53	0.80	± 12.0 %
900	55.0	1.05	9.01	9.01	9.01	0.44	0.89	± 12.0 %
1450	54.0	1.30	7.93	7.93	7.93	0.33	0.80	± 12.0 %
1750	53.4	1.49	7.68	7.68	7.68	0.49	0.82	± 12.0 %
1900	53.3	1.52	7.37	7.37	7.37	0.38	0.86	± 12.0 %
2100	53.2	1.62	7.79	7.79	7.79	0.42	0.80	± 12.0 %
2450	52.7	1.95	7.19	7.19	7.19	0.41	0.84	± 12.0 %
2600	52.5	2.16	7.01	7.01	7.01	0.30	0.99	± 12.0 %
3500	51.3	3.31	6.90	6.90	6.90	0.25	1.25	± 13.1 %
5200	49.0	5.30	4.23	4.23	4.23	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.09	4.09	4.09	0.50	1.90	± 13.1 %
5500	48.6	5.65	3.94	3.94	3.94	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.80	3.80	3.80	0.50	1.90	± 13.1 %
5800	48.2	6.00	3.95	3.95	3.95	0.50	1.90	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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June 26, 2018

Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)

Legend: TEM, R22

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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EX3DV4– SN:3801

June 26, 2018

Receiving Pattern (φ), ϑ = 0°

f=600 MHz,TEM

f=1800 MHz,R22

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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June 26, 2018

Dynamic Range f(SAR$_{head}$)
(TEM cell , f$_{eval}$= 1900 MHz)

Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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June 26, 2018

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

f = 1900 MHz,WGLS R22 (H_convF)

Deviation from Isotropy in Liquid
Error (φ, ϑ), f = 900 MHz

Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	126.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

EX3DV4– SN:3801

June 26, 2018

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√µV	C	D dB	VR mV	Max Unc[E] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	166.4	± 3.0 %
		Y	0.00	0.00	1.00		173.4	
		Z	0.00	0.00	1.00		164.7	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	3.37	69.78	12.74	10.00	20.0	± 9.6 %
		Y	6.44	76.86	15.76		20.0	
		Z	3.21	69.39	12.43		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	0.83	64.38	12.95	0.00	150.0	± 9.6 %
		Y	0.99	67.13	14.98		150.0	
		Z	0.83	64.35	12.93		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.10	62.97	14.26	0.41	150.0	± 9.6 %
		Y	1.20	64.42	15.48		150.0	
		Z	1.09	62.83	14.21		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.80	66.58	16.95	1.46	150.0	± 9.6 %
		Y	4.93	66.87	17.23		150.0	
		Z	4.79	66.54	16.94		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	116.48	28.92	9.39	50.0	± 9.6 %
		Y	100.00	116.87	29.39		50.0	
		Z	100.00	116.44	28.77		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	116.20	28.84	9.57	50.0	± 9.6 %
		Y	100.00	116.71	29.35		50.0	
		Z	100.00	116.08	28.65		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	113.53	26.55	6.56	60.0	± 9.6 %
		Y	100.00	114.45	27.34		60.0	
		Z	100.00	114.34	26.74		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	4.69	72.18	26.92	12.57	50.0	± 9.6 %
		Y	15.97	110.85	44.06		50.0	
		Z	4.44	71.01	26.44		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	11.01	95.24	33.64	9.56	60.0	± 9.6 %
		Y	27.30	117.67	41.25		60.0	
		Z	9.87	93.32	33.15		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	112.38	25.28	4.80	80.0	± 9.6 %
		Y	100.00	114.07	26.45		80.0	
		Z	100.00	113.67	25.65		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	111.82	24.34	3.55	100.0	± 9.6 %
		Y	100.00	114.73	26.07		100.0	
		Z	100.00	113.39	24.82		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.96	84.53	28.40	7.80	80.0	± 9.6 %
		Y	12.11	97.00	33.17		80.0	
		Z	6.28	82.79	27.89		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	111.17	25.02	5.30	70.0	± 9.6 %
		Y	100.00	112.86	26.19		70.0	
		Z	100.00	112.10	25.26		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	105.29	20.26	1.88	100.0	± 9.6 %
		Y	100.00	113.55	24.19		100.0	
		Z	100.00	105.78	20.26		100.0	

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10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	101.22	17.75	1.17	100.0	± 9.6 %
		Y	100.00	116.20	24.29		100.0	
		Z	100.00	100.56	17.31		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	18.92	99.43	26.35	5.30	70.0	± 9.6 %
		Y	100.00	126.11	33.82		70.0	
		Z	20.67	102.09	27.36		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	3.06	75.57	16.71	1.88	100.0	± 9.6 %
		Y	9.98	92.25	23.17		100.0	
		Z	2.90	75.55	16.88		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.83	70.29	14.26	1.17	100.0	± 9.6 %
		Y	4.00	80.96	19.27		100.0	
		Z	1.74	70.11	14.32		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	30.39	106.85	28.45	5.30	70.0	± 9.6 %
		Y	100.00	126.44	33.98		70.0	
		Z	35.81	110.82	29.76		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.84	74.70	16.36	1.88	100.0	± 9.6 %
		Y	8.90	90.73	22.69		100.0	
		Z	2.69	74.65	16.52		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.85	70.62	14.50	1.17	100.0	± 9.6 %
		Y	4.14	81.72	19.65		100.0	
		Z	1.75	70.43	14.57		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.12	65.78	11.74	0.00	150.0	± 9.6 %
		Y	1.72	71.14	15.18		150.0	
		Z	1.13	65.83	11.81		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	111.21	25.70	7.78	50.0	± 9.6 %
		Y	100.00	112.25	26.50		50.0	
		Z	100.00	111.42	25.65		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.04	119.18	11.18	0.00	150.0	± 9.6 %
		Y	0.01	110.75	9.59		150.0	
		Z	0.04	119.30	10.88		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	116.95	30.57	13.80	25.0	± 9.6 %
		Y	100.00	118.90	31.58		25.0	
		Z	100.00	115.50	29.86		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	116.02	29.07	10.79	40.0	± 9.6 %
		Y	100.00	116.75	29.64		40.0	
		Z	100.00	115.45	28.70		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	26.45	101.81	27.79	9.03	50.0	± 9.6 %
		Y	95.09	123.36	33.94		50.0	
		Z	35.26	107.00	29.30		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	5.27	78.98	25.36	6.55	100.0	± 9.6 %
		Y	7.85	87.34	28.81		100.0	
		Z	4.82	77.53	24.91		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.16	64.21	14.95	0.61	110.0	± 9.6 %
		Y	1.31	66.27	16.46		110.0	
		Z	1.14	63.97	14.87		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	8.60	97.03	24.51	1.30	110.0	± 9.6 %
		Y	100.00	133.40	34.07		110.0	
		Z	7.00	95.42	24.31		110.0	

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10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	3.49	81.85	22.13	2.04	110.0	± 9.6 %
		Y	10.88	100.68	28.62		110.0	
		Z	3.06	80.49	21.85		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.56	66.41	16.26	0.49	100.0	± 9.6 %
		Y	4.69	66.72	16.55		100.0	
		Z	4.56	66.38	16.26		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.58	66.53	16.38	0.72	100.0	± 9.6 %
		Y	4.72	66.85	16.68		100.0	
		Z	4.58	66.50	16.38		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.86	66.80	16.63	0.86	100.0	± 9.6 %
		Y	5.01	67.14	16.92		100.0	
		Z	4.86	66.78	16.63		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.75	66.74	16.76	1.21	100.0	± 9.6 %
		Y	4.90	67.11	17.07		100.0	
		Z	4.75	66.71	16.76		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.77	66.80	16.95	1.46	100.0	± 9.6 %
		Y	4.93	67.18	17.28		100.0	
		Z	4.77	66.76	16.95		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.09	67.08	17.46	2.04	100.0	± 9.6 %
		Y	5.24	67.39	17.76		100.0	
		Z	5.08	67.03	17.46		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.14	67.13	17.70	2.55	100.0	± 9.6 %
		Y	5.32	67.54	18.04		100.0	
		Z	5.13	67.08	17.69		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.22	67.17	17.91	2.67	100.0	± 9.6 %
		Y	5.40	67.53	18.24		100.0	
		Z	5.22	67.11	17.90		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.91	66.72	17.29	1.99	100.0	± 9.6 %
		Y	5.04	67.03	17.58		100.0	
		Z	4.90	66.67	17.29		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.90	67.07	17.53	2.30	100.0	± 9.6 %
		Y	5.05	67.46	17.86		100.0	
		Z	4.89	67.01	17.52		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.99	67.32	17.91	2.83	100.0	± 9.6 %
		Y	5.14	67.73	18.26		100.0	
		Z	4.97	67.24	17.90		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.00	67.29	18.10	3.30	100.0	± 9.6 %
		Y	5.15	67.70	18.46		100.0	
		Z	4.97	67.19	18.08		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.05	67.46	18.45	3.82	90.0	± 9.6 %
		Y	5.22	67.96	18.86		90.0	
		Z	5.02	67.34	18.42		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.08	67.31	18.60	4.15	90.0	± 9.6 %
		Y	5.23	67.75	18.99		90.0	
		Z	5.05	67.18	18.57		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.11	67.39	18.71	4.30	90.0	± 9.6 %
		Y	5.26	67.83	19.09		90.0	
		Z	5.08	67.25	18.67		90.0	

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10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.58	62.15	9.26	0.00	150.0	± 9.6 %
		Y	0.79	65.29	12.01		150.0	
		Z	0.59	62.18	9.31		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.89	60.00	5.00	4.77	80.0	± 9.6 %
		Y	1.06	60.10	5.42		80.0	
		Z	0.82	60.00	4.83		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	113.61	26.61	6.56	60.0	± 9.6 %
		Y	100.00	114.52	27.40		60.0	
		Z	100.00	114.43	26.80		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.61	65.84	14.20	0.00	150.0	± 9.6 %
		Y	1.79	67.45	15.49		150.0	
		Z	1.61	65.80	14.19		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.57	65.77	14.15	0.00	150.0	± 9.6 %
		Y	1.75	67.41	15.45		150.0	
		Z	1.57	65.73	14.14		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	11.08	95.35	33.68	9.56	60.0	± 9.6 %
		Y	27.49	117.79	41.28		60.0	
		Z	9.94	93.45	33.20		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.79	68.48	15.57	0.00	150.0	± 9.6 %
		Y	3.10	70.20	16.56		150.0	
		Z	2.79	68.46	15.56		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.04	66.54	15.23	0.00	150.0	± 9.6 %
		Y	3.21	67.43	15.84		150.0	
		Z	3.04	66.53	15.23		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.15	66.58	15.37	0.00	150.0	± 9.6 %
		Y	3.32	67.39	15.93		150.0	
		Z	3.15	66.57	15.36		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.94	77.02	20.93	3.98	65.0	± 9.6 %
		Y	8.30	79.59	21.98		65.0	
		Z	6.60	76.51	20.82		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.60	74.37	20.62	3.98	65.0	± 9.6 %
		Y	7.74	76.89	21.76		65.0	
		Z	6.34	73.90	20.51		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.43	73.76	20.67	3.98	65.0	± 9.6 %
		Y	7.21	75.46	21.47		65.0	
		Z	6.12	73.09	20.46		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.42	67.75	15.36	0.00	150.0	± 9.6 %
		Y	2.70	69.42	16.38		150.0	
		Z	2.42	67.73	15.35		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.68	66.30	15.02	0.00	150.0	± 9.6 %
		Y	2.87	67.25	15.73		150.0	
		Z	2.69	66.28	15.02		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	1.93	66.75	14.78	0.00	150.0	± 9.6 %
		Y	2.19	68.51	15.97		150.0	
		Z	1.93	66.73	14.77		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.36	66.83	15.03	0.00	150.0	± 9.6 %
		Y	2.58	67.98	15.96		150.0	
		Z	2.36	66.80	15.03		150.0	

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10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.81	66.38	15.13	0.00	150.0	± 9.6 %
		Y	2.99	67.24	15.78		150.0	
		Z	2.82	66.36	15.13		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.51	67.07	15.23	0.00	150.0	± 9.6 %
		Y	2.73	68.12	16.09		150.0	
		Z	2.52	67.04	15.23		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.99	66.82	16.16	0.00	150.0	± 9.6 %
		Y	5.10	67.13	16.38		150.0	
		Z	5.00	66.82	16.16		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.25	66.91	16.21	0.00	150.0	± 9.6 %
		Y	5.40	67.27	16.46		150.0	
		Z	5.26	66.91	16.22		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.07	66.99	16.17	0.00	150.0	± 9.6 %
		Y	5.20	67.33	16.40		150.0	
		Z	5.08	66.99	16.17		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.96	66.69	16.10	0.00	150.0	± 9.6 %
		Y	5.07	67.00	16.33		150.0	
		Z	4.96	66.68	16.10		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.33	67.12	16.33	0.00	150.0	± 9.6 %
		Y	5.48	67.48	16.57		150.0	
		Z	5.34	67.12	16.33		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.06	66.96	16.16	0.00	150.0	± 9.6 %
		Y	5.17	67.27	16.38		150.0	
		Z	5.07	66.96	16.16		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.18	66.58	15.28	0.00	150.0	± 9.6 %
		Y	3.35	67.40	15.85		150.0	
		Z	3.18	66.57	15.28		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.31	66.74	15.49	0.00	150.0	± 9.6 %
		Y	3.48	67.49	16.02		150.0	
		Z	3.31	66.73	15.48		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.67	66.36	14.09	0.00	150.0	± 9.6 %
		Y	1.96	68.43	15.60		150.0	
		Z	1.68	66.34	14.10		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.13	66.92	14.26	0.00	150.0	± 9.6 %
		Y	2.43	68.64	15.63		150.0	
		Z	2.14	66.91	14.27		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.95	64.98	12.78	0.00	150.0	± 9.6 %
		Y	2.21	66.44	14.07		150.0	
		Z	1.96	64.98	12.81		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.89	61.84	8.95	0.00	150.0	± 9.6 %
		Y	1.18	64.72	11.53		150.0	
		Z	0.90	61.92	9.05		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.50	63.67	9.83	0.00	150.0	± 9.6 %
		Y	2.10	66.97	12.06		150.0	
		Z	1.48	63.51	9.75		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.66	64.83	10.55	0.00	150.0	± 9.6 %
		Y	2.53	69.23	13.24		150.0	
		Z	1.63	64.59	10.43		150.0	

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10149-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.69	66.35	15.07	0.00	150.0	± 9.6 %
		Y	2.88	67.31	15.77		150.0	
		Z	2.70	66.34	15.06		150.0	
10150-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.82	66.43	15.17	0.00	150.0	± 9.6 %
		Y	3.00	67.30	15.82		150.0	
		Z	2.82	66.41	15.17		150.0	
10151-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	7.29	79.43	21.93	3.98	65.0	± 9.6 %
		Y	9.32	83.12	23.40		65.0	
		Z	6.94	78.98	21.87		65.0	
10152-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	6.14	74.36	20.27	3.98	65.0	± 9.6 %
		Y	7.37	77.20	21.60		65.0	
		Z	5.87	73.88	20.17		65.0	
10153-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.57	75.50	21.13	3.98	65.0	± 9.6 %
		Y	7.80	78.18	22.37		65.0	
		Z	6.29	74.99	21.02		65.0	
10154-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	1.96	67.07	14.99	0.00	150.0	± 9.6 %
		Y	2.23	68.90	16.22		150.0	
		Z	1.97	67.05	14.99		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.36	66.85	15.05	0.00	150.0	± 9.6 %
		Y	2.58	68.00	15.98		150.0	
		Z	2.37	66.82	15.05		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.49	66.02	13.56	0.00	150.0	± 9.6 %
		Y	1.80	68.47	15.37		150.0	
		Z	1.50	66.01	13.58		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.74	65.03	12.45	0.00	150.0	± 9.6 %
		Y	2.04	66.94	14.07		150.0	
		Z	1.75	65.04	12.50		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.52	67.13	15.27	0.00	150.0	± 9.6 %
		Y	2.73	68.18	16.14		150.0	
		Z	2.52	67.10	15.27		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.82	65.36	12.68	0.00	150.0	± 9.6 %
		Y	2.15	67.39	14.35		150.0	
		Z	1.83	65.38	12.73		150.0	
10160-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.49	67.29	15.33	0.00	150.0	± 9.6 %
		Y	2.71	68.48	16.17		150.0	
		Z	2.50	67.27	15.32		150.0	
10161-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.71	66.34	15.05	0.00	150.0	± 9.6 %
		Y	2.90	67.23	15.75		150.0	
		Z	2.71	66.32	15.05		150.0	
10162-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.82	66.54	15.20	0.00	150.0	± 9.6 %
		Y	3.01	67.37	15.86		150.0	
		Z	2.82	66.52	15.19		150.0	
10166-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.40	69.00	18.89	3.01	150.0	± 9.6 %
		Y	3.70	70.05	19.33		150.0	
		Z	3.38	68.85	18.78		150.0	
10167-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.04	71.48	19.17	3.01	150.0	± 9.6 %
		Y	4.70	73.38	19.92		150.0	
		Z	4.01	71.28	19.04		150.0	

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10168-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.52	73.94	20.64	3.01	150.0	± 9.6 %
		Y	5.25	75.73	21.26		150.0	
		Z	4.48	73.68	20.49		150.0	
10169-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.77	67.75	18.34	3.01	150.0	± 9.6 %
		Y	3.18	70.11	19.36		150.0	
		Z	2.75	67.60	18.22		150.0	
10170-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.59	72.80	20.42	3.01	150.0	± 9.6 %
		Y	4.67	76.93	21.92		150.0	
		Z	3.54	72.56	20.26		150.0	
10171-AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.99	69.00	17.71	3.01	150.0	± 9.6 %
		Y	3.76	72.40	19.07		150.0	
		Z	2.96	68.80	17.56		150.0	
10172-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	9.91	94.44	29.85	6.02	65.0	± 9.6 %
		Y	26.96	112.91	35.22		65.0	
		Z	8.39	91.68	29.04		65.0	
10173-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	17.47	101.05	30.02	6.02	65.0	± 9.6 %
		Y	73.48	124.50	35.94		65.0	
		Z	15.60	99.60	29.69		65.0	
10174-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	14.33	96.21	27.96	6.02	65.0	± 9.6 %
		Y	38.46	111.23	31.91		65.0	
		Z	12.63	94.55	27.54		65.0	
10175-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.74	67.47	18.09	3.01	150.0	± 9.6 %
		Y	3.14	69.79	19.11		150.0	
		Z	2.72	67.32	17.97		150.0	
10176-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.59	72.83	20.43	3.01	150.0	± 9.6 %
		Y	4.68	76.96	21.93		150.0	
		Z	3.55	72.58	20.27		150.0	
10177-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.76	67.60	18.18	3.01	150.0	± 9.6 %
		Y	3.17	69.94	19.20		150.0	
		Z	2.74	67.46	18.06		150.0	
10178-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.56	72.65	20.32	3.01	150.0	± 9.6 %
		Y	4.63	76.72	21.81		150.0	
		Z	3.52	72.40	20.17		150.0	
10179-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.26	70.78	18.93	3.01	150.0	± 9.6 %
		Y	4.17	74.53	20.35		150.0	
		Z	3.22	70.55	18.78		150.0	
10180-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.99	68.95	17.67	3.01	150.0	± 9.6 %
		Y	3.75	72.33	19.02		150.0	
		Z	2.95	68.75	17.52		150.0	
10181-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.75	67.59	18.17	3.01	150.0	± 9.6 %
		Y	3.17	69.93	19.20		150.0	
		Z	2.73	67.44	18.06		150.0	
10182-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.56	72.62	20.31	3.01	150.0	± 9.6 %
		Y	4.62	76.70	21.80		150.0	
		Z	3.51	72.38	20.16		150.0	
10183-AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.98	68.93	17.66	3.01	150.0	± 9.6 %
		Y	3.74	72.31	19.01		150.0	
		Z	2.95	68.73	17.51		150.0	

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10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.76	67.63	18.19	3.01	150.0	± 9.6 %
		Y	3.18	69.97	19.22		150.0	
		Z	2.74	67.48	18.08		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.58	72.69	20.35	3.01	150.0	± 9.6 %
		Y	4.64	76.77	21.83		150.0	
		Z	3.53	72.45	20.19		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.00	68.99	17.69	3.01	150.0	± 9.6 %
		Y	3.76	72.38	19.04		150.0	
		Z	2.96	68.79	17.54		150.0	
10187-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.77	67.68	18.26	3.01	150.0	± 9.6 %
		Y	3.19	70.03	19.28		150.0	
		Z	2.75	67.54	18.15		150.0	
10188-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.68	73.28	20.71	3.01	150.0	± 9.6 %
		Y	4.80	77.49	22.22		150.0	
		Z	3.63	73.04	20.56		150.0	
10189-AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.05	69.36	17.95	3.01	150.0	± 9.6 %
		Y	3.85	72.83	19.33		150.0	
		Z	3.02	69.15	17.80		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.37	66.23	15.79	0.00	150.0	± 9.6 %
		Y	4.50	66.54	16.08		150.0	
		Z	4.38	66.22	15.79		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.53	66.52	15.92	0.00	150.0	± 9.6 %
		Y	4.67	66.86	16.20		150.0	
		Z	4.54	66.50	15.92		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.57	66.55	15.95	0.00	150.0	± 9.6 %
		Y	4.71	66.89	16.22		150.0	
		Z	4.58	66.54	15.94		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.37	66.26	15.80	0.00	150.0	± 9.6 %
		Y	4.50	66.60	16.10		150.0	
		Z	4.38	66.25	15.80		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.54	66.53	15.94	0.00	150.0	± 9.6 %
		Y	4.68	66.88	16.22		150.0	
		Z	4.55	66.52	15.93		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.57	66.56	15.96	0.00	150.0	± 9.6 %
		Y	4.71	66.90	16.23		150.0	
		Z	4.58	66.55	15.95		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.32	66.27	15.75	0.00	150.0	± 9.6 %
		Y	4.45	66.61	16.06		150.0	
		Z	4.32	66.26	15.75		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.54	66.50	15.92	0.00	150.0	± 9.6 %
		Y	4.68	66.85	16.21		150.0	
		Z	4.54	66.49	15.92		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.58	66.50	15.95	0.00	150.0	± 9.6 %
		Y	4.72	66.83	16.22		150.0	
		Z	4.59	66.49	15.94		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.93	66.68	16.09	0.00	150.0	± 9.6 %
		Y	5.04	67.01	16.33		150.0	
		Z	4.94	66.67	16.09		150.0	

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10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.24	66.96	16.26	0.00	150.0	± 9.6 %
		Y	5.34	67.20	16.45		150.0	
		Z	5.25	66.96	16.26		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.97	66.79	16.07	0.00	150.0	± 9.6 %
		Y	5.09	67.12	16.31		150.0	
		Z	4.98	66.78	16.07		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.61	65.30	14.50	0.00	150.0	± 9.6 %
		Y	2.77	66.01	15.22		150.0	
		Z	2.62	65.28	14.51		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	19.06	102.80	30.64	6.02	65.0	± 9.6 %
		Y	84.74	127.31	36.73		65.0	
		Z	16.97	101.30	30.30		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	18.47	100.66	29.36	6.02	65.0	± 9.6 %
		Y	61.00	119.15	34.00		65.0	
		Z	16.71	99.46	29.10		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	11.22	97.35	30.90	6.02	65.0	± 9.6 %
		Y	42.26	122.26	37.83		65.0	
		Z	9.70	95.02	30.26		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	17.60	101.16	30.06	6.02	65.0	± 9.6 %
		Y	73.82	124.58	35.96		65.0	
		Z	15.72	99.72	29.73		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	16.98	99.07	28.81	6.02	65.0	± 9.6 %
		Y	54.30	116.97	33.37		65.0	
		Z	15.38	97.90	28.55		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	10.61	96.11	30.42	6.02	65.0	± 9.6 %
		Y	38.34	120.13	37.18		65.0	
		Z	9.21	93.87	29.80		65.0	
10232-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	17.57	101.15	30.06	6.02	65.0	± 9.6 %
		Y	73.88	124.60	35.97		65.0	
		Z	15.69	99.70	29.73		65.0	
10233-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	16.93	99.04	28.80	6.02	65.0	± 9.6 %
		Y	54.26	116.98	33.37		65.0	
		Z	15.34	97.87	28.54		65.0	
10234-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	10.13	95.03	29.94	6.02	65.0	± 9.6 %
		Y	35.09	118.08	36.51		65.0	
		Z	8.83	92.87	29.34		65.0	
10235-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	17.61	101.20	30.07	6.02	65.0	± 9.6 %
		Y	74.39	124.74	36.01		65.0	
		Z	15.72	99.75	29.75		65.0	
10236-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	17.15	99.23	28.85	6.02	65.0	± 9.6 %
		Y	55.30	117.26	33.44		65.0	
		Z	15.54	98.06	28.59		65.0	
10237-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	10.63	96.19	30.45	6.02	65.0	± 9.6 %
		Y	38.84	120.43	37.26		65.0	
		Z	9.22	93.94	29.82		65.0	
10238-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	17.54	101.13	30.05	6.02	65.0	± 9.6 %
		Y	73.93	124.62	35.97		65.0	
		Z	15.66	99.68	29.72		65.0	

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10239-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	16.87	99.00	28.79	6.02	65.0	± 9.6 %
		Y	54.20	116.98	33.38		65.0	
		Z	15.28	97.83	28.53		65.0	
10240-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	10.60	96.15	30.43	6.02	65.0	± 9.6 %
		Y	38.66	120.35	37.24		65.0	
		Z	9.20	93.89	29.81		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.68	82.76	26.12	6.98	65.0	± 9.6 %
		Y	11.24	87.33	27.87		65.0	
		Z	8.20	81.79	25.80		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	8.24	81.67	25.60	6.98	65.0	± 9.6 %
		Y	9.94	84.69	26.78		65.0	
		Z	7.73	80.54	25.21		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	6.66	78.27	25.11	6.98	65.0	± 9.6 %
		Y	7.69	80.76	26.19		65.0	
		Z	6.24	77.03	24.63		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	6.51	76.73	18.61	3.98	65.0	± 9.6 %
		Y	8.90	80.96	20.59		65.0	
		Z	6.20	76.45	18.60		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	6.23	75.82	18.19	3.98	65.0	± 9.6 %
		Y	8.52	80.01	20.18		65.0	
		Z	5.95	75.55	18.18		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	5.89	78.26	19.20	3.98	65.0	± 9.6 %
		Y	10.33	86.66	22.77		65.0	
		Z	5.69	78.38	19.42		65.0	
10247-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.27	73.98	18.20	3.98	65.0	± 9.6 %
		Y	6.98	78.14	20.37		65.0	
		Z	5.06	73.79	18.26		65.0	
10248-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.20	73.29	17.89	3.98	65.0	± 9.6 %
		Y	6.82	77.27	20.01		65.0	
		Z	5.00	73.09	17.94		65.0	
10249-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	7.64	82.87	21.98	3.98	65.0	± 9.6 %
		Y	12.50	90.52	24.99		65.0	
		Z	7.27	82.69	22.09		65.0	
10250-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.39	77.19	21.35	3.98	65.0	± 9.6 %
		Y	7.97	80.62	22.94		65.0	
		Z	6.07	76.69	21.28		65.0	
10251-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.95	74.70	19.94	3.98	65.0	± 9.6 %
		Y	7.31	77.83	21.49		65.0	
		Z	5.69	74.26	19.87		65.0	
10252-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	7.81	82.79	23.08	3.98	65.0	± 9.6 %
		Y	11.09	88.26	25.20		65.0	
		Z	7.35	82.26	23.04		65.0	
10253-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	6.02	73.87	20.02	3.98	65.0	± 9.6 %
		Y	7.15	76.53	21.33		65.0	
		Z	5.76	73.39	19.91		65.0	
10254-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	6.41	74.89	20.77	3.98	65.0	± 9.6 %
		Y	7.57	77.46	22.02		65.0	
		Z	6.13	74.39	20.66		65.0	

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10255-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.95	78.78	21.87	3.98	65.0	± 9.6 %
		Y	8.80	82.37	23.35		65.0	
		Z	6.59	78.27	21.78		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.69	71.51	15.31	3.98	65.0	± 9.6 %
		Y	6.81	76.30	17.77		65.0	
		Z	4.50	71.34	15.32		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.47	70.51	14.76	3.98	65.0	± 9.6 %
		Y	6.44	75.12	17.21		65.0	
		Z	4.29	70.34	14.77		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	4.06	72.26	15.82	3.98	65.0	± 9.6 %
		Y	7.18	80.25	19.65		65.0	
		Z	3.95	72.43	16.05		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.72	75.25	19.37	3.98	65.0	± 9.6 %
		Y	7.37	79.06	21.29		65.0	
		Z	5.47	74.94	19.38		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.72	74.91	19.23	3.98	65.0	± 9.6 %
		Y	7.31	78.59	21.12		65.0	
		Z	5.48	74.60	19.24		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	7.27	81.87	22.09	3.98	65.0	± 9.6 %
		Y	10.93	88.24	24.66		65.0	
		Z	6.86	81.50	22.12		65.0	
10262-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	6.37	77.12	21.30	3.98	65.0	± 9.6 %
		Y	7.95	80.56	22.90		65.0	
		Z	6.05	76.62	21.23		65.0	
10263-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.94	74.67	19.93	3.98	65.0	± 9.6 %
		Y	7.30	77.80	21.49		65.0	
		Z	5.68	74.24	19.86		65.0	
10264-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	7.72	82.55	22.97	3.98	65.0	± 9.6 %
		Y	10.95	88.00	25.09		65.0	
		Z	7.26	82.02	22.93		65.0	
10265-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	6.14	74.37	20.28	3.98	65.0	± 9.6 %
		Y	7.36	77.20	21.61		65.0	
		Z	5.87	73.89	20.17		65.0	
10266-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.57	75.48	21.12	3.98	65.0	± 9.6 %
		Y	7.80	78.16	22.36		65.0	
		Z	6.28	74.97	21.00		65.0	
10267-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.27	79.38	21.91	3.98	65.0	± 9.6 %
		Y	9.30	83.06	23.38		65.0	
		Z	6.92	78.93	21.85		65.0	
10268-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.75	74.24	20.68	3.98	65.0	± 9.6 %
		Y	7.82	76.54	21.74		65.0	
		Z	6.49	73.77	20.56		65.0	
10269-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.72	73.83	20.55	3.98	65.0	± 9.6 %
		Y	7.73	76.02	21.58		65.0	
		Z	6.46	73.36	20.43		65.0	
10270-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.94	76.39	20.90	3.98	65.0	± 9.6 %
		Y	8.26	78.95	21.97		65.0	
		Z	6.65	75.97	20.82		65.0	

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10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.40	65.55	14.34	0.00	150.0	± 9.6 %
		Y	2.55	66.36	15.12		150.0	
		Z	2.40	65.52	14.34		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.37	65.59	13.82	0.00	150.0	± 9.6 %
		Y	1.57	67.69	15.34		150.0	
		Z	1.37	65.56	13.81		150.0	
10277-CAA	PHS (QPSK)	X	2.46	62.30	7.92	9.03	50.0	± 9.6 %
		Y	2.99	63.83	9.17		50.0	
		Z	2.33	62.06	7.69		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.98	72.46	15.62	9.03	50.0	± 9.6 %
		Y	8.77	80.80	19.53		50.0	
		Z	5.06	73.09	15.89		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	5.10	72.72	15.78	9.03	50.0	± 9.6 %
		Y	8.97	81.08	19.68		50.0	
		Z	5.19	73.36	16.06		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	0.97	64.08	10.61	0.00	150.0	± 9.6 %
		Y	1.37	68.00	13.49		150.0	
		Z	0.98	64.13	10.68		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.58	62.04	9.17	0.00	150.0	± 9.6 %
		Y	0.77	65.07	11.88		150.0	
		Z	0.58	62.07	9.23		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.64	63.79	10.46	0.00	150.0	± 9.6 %
		Y	0.99	69.13	14.24		150.0	
		Z	0.64	63.81	10.51		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	0.81	66.57	12.32	0.00	150.0	± 9.6 %
		Y	1.56	75.54	17.45		150.0	
		Z	0.81	66.55	12.35		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.79	88.13	24.57	9.03	50.0	± 9.6 %
		Y	13.93	91.96	26.60		50.0	
		Z	12.03	89.02	24.99		50.0	
10297-AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.43	67.83	15.42	0.00	150.0	± 9.6 %
		Y	2.71	69.51	16.44		150.0	
		Z	2.43	67.81	15.41		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.17	64.21	11.42	0.00	150.0	± 9.6 %
		Y	1.51	67.23	13.79		150.0	
		Z	1.18	64.25	11.49		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.14	67.38	12.81	0.00	150.0	± 9.6 %
		Y	2.87	70.55	14.69		150.0	
		Z	2.09	67.00	12.62		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.64	63.53	10.15	0.00	150.0	± 9.6 %
		Y	2.07	65.55	11.64		150.0	
		Z	1.63	63.41	10.08		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.80	65.91	17.41	4.17	50.0	± 9.6 %
		Y	5.18	67.15	18.29		50.0	
		Z	4.75	65.66	17.30		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.25	66.32	18.01	4.96	50.0	± 9.6 %
		Y	5.53	67.15	18.67		50.0	
		Z	5.21	66.16	17.95		50.0	

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10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.02	66.03	17.86	4.96	50.0	± 9.6 %
		Y	5.30	66.93	18.58		50.0	
		Z	4.98	65.85	17.79		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.79	65.79	17.29	4.17	50.0	± 9.6 %
		Y	5.06	66.59	17.94		50.0	
		Z	4.76	65.63	17.23		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.90	69.87	20.22	6.02	35.0	± 9.6 %
		Y	5.31	71.48	21.54		35.0	
		Z	4.75	69.22	19.95		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.99	68.00	19.55	6.02	35.0	± 9.6 %
		Y	5.28	69.01	20.47		35.0	
		Z	4.90	67.60	19.37		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.92	68.28	19.55	6.02	35.0	± 9.6 %
		Y	5.25	69.46	20.56		35.0	
		Z	4.82	67.84	19.36		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.92	68.59	19.73	6.02	35.0	± 9.6 %
		Y	5.26	69.83	20.78		35.0	
		Z	4.82	68.12	19.53		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.04	68.19	19.68	6.02	35.0	± 9.6 %
		Y	5.35	69.29	20.64		35.0	
		Z	4.95	67.79	19.50		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.96	68.14	19.55	6.02	35.0	± 9.6 %
		Y	5.25	69.19	20.50		35.0	
		Z	4.87	67.72	19.37		35.0	
10311-AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.77	67.21	15.18	0.00	150.0	± 9.6 %
		Y	3.07	68.80	16.10		150.0	
		Z	2.77	67.19	15.17		150.0	
10313-AAA	iDEN 1:3	X	4.50	74.82	16.72	6.99	70.0	± 9.6 %
		Y	8.14	81.70	19.31		70.0	
		Z	4.21	74.79	16.81		70.0	
10314-AAA	iDEN 1:6	X	6.62	83.57	22.82	10.00	30.0	± 9.6 %
		Y	15.63	96.40	26.94		30.0	
		Z	6.51	84.13	23.15		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.00	62.64	14.01	0.17	150.0	± 9.6 %
		Y	1.09	64.02	15.23		150.0	
		Z	0.99	62.54	13.97		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.44	66.34	15.98	0.17	150.0	± 9.6 %
		Y	4.58	66.68	16.29		150.0	
		Z	4.45	66.32	15.98		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.44	66.34	15.98	0.17	150.0	± 9.6 %
		Y	4.58	66.68	16.29		150.0	
		Z	4.45	66.32	15.98		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.51	66.55	15.91	0.00	150.0	± 9.6 %
		Y	4.66	66.92	16.21		150.0	
		Z	4.52	66.54	15.91		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.26	66.85	16.18	0.00	150.0	± 9.6 %
		Y	5.36	67.11	16.38		150.0	
		Z	5.27	66.86	16.18		150.0	

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10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.49	67.07	16.16	0.00	150.0	± 9.6 %
		Y	5.61	67.41	16.38		150.0	
		Z	5.50	67.07	16.16		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	0.97	64.08	10.61	0.00	115.0	± 9.6 %
		Y	1.37	68.00	13.49		115.0	
		Z	0.98	64.13	10.68		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.97	64.08	10.61	0.00	115.0	± 9.6 %
		Y	1.37	68.00	13.49		115.0	
		Z	0.98	64.13	10.68		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	30.79	107.36	27.23	0.00	100.0	± 9.6 %
		Y	100.00	120.16	29.82		100.0	
		Z	19.65	100.98	25.49		100.0	
10410-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	124.91	31.71	3.23	80.0	± 9.6 %
		Y	100.00	121.32	30.41		80.0	
		Z	100.00	125.61	31.93		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.92	61.75	13.36	0.00	150.0	± 9.6 %
		Y	0.98	62.81	14.44		150.0	
		Z	0.92	61.72	13.35		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.37	66.26	15.86	0.00	150.0	± 9.6 %
		Y	4.50	66.58	16.15		150.0	
		Z	4.38	66.25	15.86		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.37	66.26	15.86	0.00	150.0	± 9.6 %
		Y	4.50	66.58	16.15		150.0	
		Z	4.38	66.25	15.86		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.36	66.42	15.89	0.00	150.0	± 9.6 %
		Y	4.49	66.74	16.17		150.0	
		Z	4.37	66.40	15.88		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.38	66.37	15.89	0.00	150.0	± 9.6 %
		Y	4.51	66.69	16.17		150.0	
		Z	4.39	66.35	15.89		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.50	66.38	15.91	0.00	150.0	± 9.6 %
		Y	4.63	66.69	16.18		150.0	
		Z	4.51	66.36	15.91		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.64	66.66	16.02	0.00	150.0	± 9.6 %
		Y	4.79	67.00	16.30		150.0	
		Z	4.65	66.65	16.02		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.57	66.61	15.99	0.00	150.0	± 9.6 %
		Y	4.72	66.95	16.27		150.0	
		Z	4.58	66.60	15.99		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.19	66.94	16.22	0.00	150.0	± 9.6 %
		Y	5.31	67.25	16.45		150.0	
		Z	5.20	66.93	16.22		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.21	67.03	16.26	0.00	150.0	± 9.6 %
		Y	5.32	67.28	16.46		150.0	
		Z	5.22	67.02	16.26		150.0	

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10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.21	66.94	16.22	0.00	150.0	± 9.6 %
		Y	5.33	67.26	16.44		150.0	
		Z	5.22	66.94	16.22		150.0	
10430-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.02	70.30	17.56	0.00	150.0	± 9.6 %
		Y	4.18	70.49	17.96		150.0	
		Z	4.02	70.25	17.56		150.0	
10431-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.00	66.69	15.72	0.00	150.0	± 9.6 %
		Y	4.18	67.12	16.13		150.0	
		Z	4.01	66.67	15.72		150.0	
10432-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.33	66.63	15.89	0.00	150.0	± 9.6 %
		Y	4.48	67.00	16.21		150.0	
		Z	4.33	66.61	15.89		150.0	
10433-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.58	66.64	16.01	0.00	150.0	± 9.6 %
		Y	4.73	66.99	16.29		150.0	
		Z	4.59	66.63	16.01		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.06	70.92	17.34	0.00	150.0	± 9.6 %
		Y	4.27	71.30	17.90		150.0	
		Z	4.06	70.88	17.35		150.0	
10435-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.67	31.60	3.23	80.0	± 9.6 %
		Y	100.00	121.12	30.31		80.0	
		Z	100.00	125.37	31.82		80.0	
10447-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.24	66.36	14.69	0.00	150.0	± 9.6 %
		Y	3.47	67.09	15.42		150.0	
		Z	3.25	66.35	14.70		150.0	
10448-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.86	66.46	15.57	0.00	150.0	± 9.6 %
		Y	4.02	66.90	15.99		150.0	
		Z	3.86	66.45	15.58		150.0	
10449-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.15	66.44	15.77	0.00	150.0	± 9.6 %
		Y	4.29	66.82	16.11		150.0	
		Z	4.16	66.43	15.77		150.0	
10450-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.36	66.40	15.85	0.00	150.0	± 9.6 %
		Y	4.49	66.75	16.14		150.0	
		Z	4.37	66.38	15.84		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.07	66.27	14.09	0.00	150.0	± 9.6 %
		Y	3.35	67.23	15.01		150.0	
		Z	3.09	66.28	14.12		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.10	67.60	16.46	0.00	150.0	± 9.6 %
		Y	6.17	67.80	16.60		150.0	
		Z	6.11	67.59	16.46		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.68	64.94	15.56	0.00	150.0	± 9.6 %
		Y	3.76	65.22	15.86		150.0	
		Z	3.68	64.92	15.56		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.64	69.83	16.43	0.00	150.0	± 9.6 %
		Y	3.92	70.59	17.30		150.0	
		Z	3.65	69.81	16.46		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.90	68.31	17.78	0.00	150.0	± 9.6 %
		Y	4.99	68.05	17.92		150.0	
		Z	4.90	68.27	17.79		150.0	

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10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.70	64.51	13.31	0.00	150.0	± 9.6 %
		Y	0.86	67.82	15.75		150.0	
		Z	0.70	64.47	13.28		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.99	33.67	3.29	80.0	± 9.6 %
		Y	100.00	126.52	32.84		80.0	
		Z	100.00	129.61	33.85		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.24	85.71	18.56	3.23	80.0	± 9.6 %
		Y	100.00	107.01	23.71		80.0	
		Z	7.60	81.91	17.44		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.22	68.12	12.22	3.23	80.0	± 9.6 %
		Y	8.52	79.99	16.22		80.0	
		Z	1.89	66.79	11.65		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.35	32.27	3.23	80.0	± 9.6 %
		Y	100.00	124.09	31.55		80.0	
		Z	100.00	126.89	32.42		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.43	78.04	16.22	3.23	80.0	± 9.6 %
		Y	61.58	101.53	22.35		80.0	
		Z	4.13	75.48	15.36		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	66.23	11.40	3.23	80.0	± 9.6 %
		Y	5.22	75.15	14.66		80.0	
		Z	1.61	65.19	10.92		80.0	
10467-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.67	32.42	3.23	80.0	± 9.6 %
		Y	100.00	124.36	31.67		80.0	
		Z	100.00	127.22	32.57		80.0	
10468-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.42	79.84	16.80	3.23	80.0	± 9.6 %
		Y	95.13	106.08	23.39		80.0	
		Z	4.76	76.99	15.88		80.0	
10469-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.85	66.30	11.43	3.23	80.0	± 9.6 %
		Y	5.30	75.30	14.71		80.0	
		Z	1.62	65.24	10.95		80.0	
10470-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.70	32.42	3.23	80.0	± 9.6 %
		Y	100.00	124.39	31.67		80.0	
		Z	100.00	127.26	32.58		80.0	
10471-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.33	79.66	16.73	3.23	80.0	± 9.6 %
		Y	93.01	105.78	23.31		80.0	
		Z	4.69	76.83	15.81		80.0	
10472-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	66.22	11.39	3.23	80.0	± 9.6 %
		Y	5.23	75.17	14.65		80.0	
		Z	1.60	65.17	10.90		80.0	
10473-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.67	32.40	3.23	80.0	± 9.6 %
		Y	100.00	124.35	31.66		80.0	
		Z	100.00	127.22	32.56		80.0	
10474-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.23	79.51	16.69	3.23	80.0	± 9.6 %
		Y	89.77	105.43	23.23		80.0	
		Z	4.63	76.70	15.77		80.0	
10475-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.83	66.18	11.37	3.23	80.0	± 9.6 %
		Y	5.17	75.07	14.62		80.0	
		Z	1.59	65.13	10.89		80.0	

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10477-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.49	78.15	16.23	3.23	80.0	± 9.6 %
		Y	65.26	102.05	22.44		80.0	
		Z	4.15	75.54	15.36		80.0	
10478-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.81	66.09	11.33	3.23	80.0	± 9.6 %
		Y	5.09	74.88	14.55		80.0	
		Z	1.58	65.06	10.85		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	18.48	99.99	27.17	3.23	80.0	± 9.6 %
		Y	22.20	101.96	27.87		80.0	
		Z	14.17	96.33	26.21		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	14.09	89.36	21.95	3.23	80.0	± 9.6 %
		Y	20.63	93.88	23.53		80.0	
		Z	11.71	87.23	21.36		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	9.14	82.86	19.53	3.23	80.0	± 9.6 %
		Y	14.27	88.02	21.43		80.0	
		Z	7.91	81.27	19.06		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.52	69.21	14.96	2.23	80.0	± 9.6 %
		Y	5.13	78.71	19.34		80.0	
		Z	2.46	69.28	15.12		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.99	74.88	17.01	2.23	80.0	± 9.6 %
		Y	7.65	80.31	19.44		80.0	
		Z	4.60	74.09	16.78		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.44	73.15	16.36	2.23	80.0	± 9.6 %
		Y	6.72	78.36	18.77		80.0	
		Z	4.14	72.49	16.16		80.0	
10485-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.13	72.16	17.32	2.23	80.0	± 9.6 %
		Y	5.32	79.69	20.70		80.0	
		Z	3.02	71.96	17.37		80.0	
10486-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.95	68.06	15.01	2.23	80.0	± 9.6 %
		Y	4.18	72.74	17.56		80.0	
		Z	2.88	68.00	15.09		80.0	
10487-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.94	67.68	14.83	2.23	80.0	± 9.6 %
		Y	4.10	72.11	17.30		80.0	
		Z	2.88	67.63	14.91		80.0	
10488-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.50	71.98	18.18	2.23	80.0	± 9.6 %
		Y	4.95	77.05	20.46		80.0	
		Z	3.37	71.66	18.14		80.0	
10489-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.43	68.78	16.82	2.23	80.0	± 9.6 %
		Y	4.19	71.55	18.33		80.0	
		Z	3.34	68.53	16.79		80.0	
10490-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.52	68.64	16.78	2.23	80.0	± 9.6 %
		Y	4.25	71.23	18.22		80.0	
		Z	3.43	68.39	16.75		80.0	
10491-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.74	70.64	17.84	2.23	80.0	± 9.6 %
		Y	4.79	74.22	19.51		80.0	
		Z	3.63	70.36	17.79		80.0	
10492-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	68.16	16.96	2.23	80.0	± 9.6 %
		Y	4.41	70.27	18.11		80.0	
		Z	3.70	67.92	16.91		80.0	

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10493-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.85	68.05	16.92	2.23	80.0	± 9.6 %
		Y	4.46	70.06	18.03		80.0	
		Z	3.76	67.81	16.88		80.0	
10494-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.02	71.95	18.24	2.23	80.0	± 9.6 %
		Y	5.39	76.25	20.12		80.0	
		Z	3.90	71.68	18.20		80.0	
10495-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.82	68.49	17.15	2.23	80.0	± 9.6 %
		Y	4.47	70.75	18.33		80.0	
		Z	3.72	68.24	17.10		80.0	
10496-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.90	68.26	17.09	2.23	80.0	± 9.6 %
		Y	4.51	70.34	18.20		80.0	
		Z	3.81	68.02	17.05		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.64	63.93	11.45	2.23	80.0	± 9.6 %
		Y	3.48	72.94	16.17		80.0	
		Z	1.62	64.10	11.64		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.36	60.00	8.37	2.23	80.0	± 9.6 %
		Y	2.11	64.18	11.38		80.0	
		Z	1.34	60.00	8.46		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.38	60.00	8.24	2.23	80.0	± 9.6 %
		Y	2.00	63.38	10.85		80.0	
		Z	1.36	60.00	8.32		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.25	71.93	17.62	2.23	80.0	± 9.6 %
		Y	4.97	78.02	20.41		80.0	
		Z	3.13	71.66	17.62		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.19	68.55	15.79	2.23	80.0	± 9.6 %
		Y	4.19	72.26	17.86		80.0	
		Z	3.11	68.40	15.83		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.23	68.38	15.66	2.23	80.0	± 9.6 %
		Y	4.22	71.98	17.69		80.0	
		Z	3.16	68.25	15.70		80.0	
10503-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.45	71.77	18.08	2.23	80.0	± 9.6 %
		Y	4.88	76.80	20.35		80.0	
		Z	3.33	71.45	18.04		80.0	
10504-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.41	68.67	16.76	2.23	80.0	± 9.6 %
		Y	4.17	71.45	18.27		80.0	
		Z	3.32	68.43	16.73		80.0	
10505-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	68.54	16.72	2.23	80.0	± 9.6 %
		Y	4.23	71.13	18.16		80.0	
		Z	3.41	68.30	16.69		80.0	
10506-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.99	71.81	18.17	2.23	80.0	± 9.6 %
		Y	5.34	76.07	20.04		80.0	
		Z	3.87	71.54	18.13		80.0	
10507-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.80	68.43	17.11	2.23	80.0	± 9.6 %
		Y	4.45	70.68	18.30		80.0	
		Z	3.71	68.18	17.07		80.0	

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10508-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.89	68.19	17.05	2.23	80.0	± 9.6 %
		Y	4.50	70.26	18.15		80.0	
		Z	3.79	67.95	17.00		80.0	
10509-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.34	70.70	17.76	2.23	80.0	± 9.6 %
		Y	5.36	73.79	19.16		80.0	
		Z	4.23	70.47	17.73		80.0	
10510-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.29	68.19	17.17	2.23	80.0	± 9.6 %
		Y	4.88	70.06	18.13		80.0	
		Z	4.20	67.96	17.12		80.0	
10511-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.35	67.98	17.12	2.23	80.0	± 9.6 %
		Y	4.91	69.72	18.03		60.0	
		Z	4.26	67.75	17.07		80.0	
10512-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.50	72.02	18.14	2.23	80.0	± 9.6 %
		Y	5.87	75.98	19.85		80.0	
		Z	4.38	71.80	18.12		80.0	
10513-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.18	68.39	17.24	2.23	80.0	± 9.6 %
		Y	4.80	70.47	18.29		80.0	
		Z	4.08	68.16	17.19		80.0	
10514-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.21	68.03	17.15	2.23	80.0	± 9.6 %
		Y	4.78	69.92	18.12		80.0	
		Z	4.11	67.80	17.09		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.88	61.83	13.34	0.00	150.0	± 9.6 %
		Y	0.94	62.98	14.49		150.0	
		Z	0.88	61.80	13.32		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.41	64.58	12.89	0.00	150.0	± 9.6 %
		Y	0.57	70.03	16.74		150.0	
		Z	0.41	64.53	12.84		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.70	62.81	13.29	0.00	150.0	± 9.6 %
		Y	0.79	64.81	15.03		150.0	
		Z	0.70	62.78	13.27		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.36	66.33	15.84	0.00	150.0	± 9.6 %
		Y	4.49	66.65	16.13		150.0	
		Z	4.37	66.32	15.84		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.53	66.54	15.95	0.00	150.0	± 9.6 %
		Y	4.68	66.89	16.24		150.0	
		Z	4.54	66.53	15.95		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.38	66.47	15.86	0.00	150.0	± 9.6 %
		Y	4.53	66.84	16.16		150.0	
		Z	4.39	66.46	15.86		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.31	66.44	15.83	0.00	150.0	± 9.6 %
		Y	4.46	66.84	16.15		150.0	
		Z	4.32	66.44	15.83		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.37	66.58	15.94	0.00	150.0	± 9.6 %
		Y	4.52	66.93	16.24		150.0	
		Z	4.38	66.57	15.94		150.0	

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10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.27	66.46	15.79	0.00	150.0	± 9.6 %
		Y	4.40	66.80	16.08		150.0	
		Z	4.28	66.44	15.79		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.32	66.49	15.90	0.00	150.0	± 9.6 %
		Y	4.47	66.85	16.20		150.0	
		Z	4.32	66.48	15.90		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.32	65.56	15.51	0.00	150.0	± 9.6 %
		Y	4.45	65.90	15.80		150.0	
		Z	4.33	65.54	15.51		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.47	65.88	15.64	0.00	150.0	± 9.6 %
		Y	4.62	66.26	15.94		150.0	
		Z	4.47	65.87	15.64		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.39	65.83	15.57	0.00	150.0	± 9.6 %
		Y	4.54	66.22	15.88		150.0	
		Z	4.40	65.82	15.57		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.40	65.85	15.60	0.00	150.0	± 9.6 %
		Y	4.56	66.24	15.91		150.0	
		Z	4.41	65.83	15.60		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.40	65.85	15.60	0.00	150.0	± 9.6 %
		Y	4.56	66.24	15.91		150.0	
		Z	4.41	65.83	15.60		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.38	65.90	15.59	0.00	150.0	± 9.6 %
		Y	4.55	66.34	15.92		150.0	
		Z	4.39	65.89	15.59		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.25	65.75	15.52	0.00	150.0	± 9.6 %
		Y	4.41	66.19	15.85		150.0	
		Z	4.26	65.74	15.52		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.41	65.91	15.60	0.00	150.0	± 9.6 %
		Y	4.57	66.29	15.90		150.0	
		Z	4.42	65.89	15.60		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.96	66.00	15.73	0.00	150.0	± 9.6 %
		Y	5.09	66.34	15.97		150.0	
		Z	4.97	65.99	15.73		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.03	66.17	15.81	0.00	150.0	± 9.6 %
		Y	5.16	66.52	16.05		150.0	
		Z	5.03	66.17	15.81		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.90	66.11	15.76	0.00	150.0	± 9.6 %
		Y	5.03	66.47	16.01		150.0	
		Z	4.91	66.11	15.76		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.95	66.08	15.75	0.00	150.0	± 9.6 %
		Y	5.08	66.43	16.00		150.0	
		Z	4.96	66.07	15.75		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.04	66.10	15.80	0.00	150.0	± 9.6 %
		Y	5.17	66.45	16.05		150.0	
		Z	5.04	66.09	15.80		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.97	66.08	15.81	0.00	150.0	± 9.6 %
		Y	5.11	66.47	16.07		150.0	
		Z	4.97	66.08	15.81		150.0	

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ID	Description	Axis						
10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.95	65.97	15.74	0.00	150.0	± 9.6 %
		Y	5.08	66.34	16.00		150.0	
		Z	4.95	65.97	15.74		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.10	66.08	15.81	0.00	150.0	± 9.6 %
		Y	5.23	66.41	16.05		150.0	
		Z	5.11	66.07	15.81		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.17	66.10	15.85	0.00	150.0	± 9.6 %
		Y	5.31	66.44	16.09		150.0	
		Z	5.18	66.09	15.85		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.30	66.13	15.75	0.00	150.0	± 9.6 %
		Y	5.40	66.46	15.97		150.0	
		Z	5.30	66.12	15.75		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.48	66.56	15.92	0.00	150.0	± 9.6 %
		Y	5.59	66.86	16.12		150.0	
		Z	5.49	66.55	15.92		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.34	66.28	15.79	0.00	150.0	± 9.6 %
		Y	5.46	66.66	16.04		150.0	
		Z	5.35	66.28	15.79		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.41	66.35	15.82	0.00	150.0	± 9.6 %
		Y	5.53	66.70	16.05		150.0	
		Z	5.42	66.35	15.82		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.62	67.15	16.20	0.00	150.0	± 9.6 %
		Y	5.76	67.56	16.45		150.0	
		Z	5.63	67.16	16.20		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.38	66.38	15.86	0.00	150.0	± 9.6 %
		Y	5.49	66.68	16.06		150.0	
		Z	5.39	66.37	15.85		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.37	66.33	15.80	0.00	150.0	± 9.6 %
		Y	5.50	66.72	16.04		150.0	
		Z	5.38	66.34	15.80		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.30	66.20	15.73	0.00	150.0	± 9.6 %
		Y	5.41	66.53	15.95		150.0	
		Z	5.31	66.19	15.73		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.37	66.20	15.77	0.00	150.0	± 9.6 %
		Y	5.50	66.56	16.00		150.0	
		Z	5.38	66.20	15.77		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.71	66.50	15.85	0.00	150.0	± 9.6 %
		Y	5.81	66.82	16.06		150.0	
		Z	5.72	66.50	15.85		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.83	66.78	15.97	0.00	150.0	± 9.6 %
		Y	5.93	67.11	16.18		150.0	
		Z	5.83	66.78	15.98		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.85	66.84	16.00	0.00	150.0	± 9.6 %
		Y	5.95	67.16	16.20		150.0	
		Z	5.86	66.84	16.00		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.81	66.72	15.96	0.00	150.0	± 9.6 %
		Y	5.92	67.07	16.18		150.0	
		Z	5.82	66.71	15.96		150.0	

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10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.85	66.86	16.05	0.00	150.0	± 9.6 %
		Y	5.96	67.22	16.27		150.0	
		Z	5.86	66.86	16.05		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.85	66.73	16.02	0.00	150.0	± 9.6 %
		Y	5.96	67.08	16.24		150.0	
		Z	5.85	66.73	16.02		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.78	66.71	16.04	0.00	150.0	± 9.6 %
		Y	5.88	67.05	16.26		150.0	
		Z	5.79	66.71	16.04		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.86	66.98	16.18	0.00	150.0	± 9.6 %
		Y	6.00	67.41	16.44		150.0	
		Z	5.87	66.99	16.18		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.96	66.91	16.11	0.00	150.0	± 9.6 %
		Y	6.20	67.62	16.50		150.0	
		Z	5.97	66.93	16.12		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.70	66.44	16.03	0.46	150.0	± 9.6 %
		Y	4.82	66.76	16.31		150.0	
		Z	4.70	66.43	16.03		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.91	66.87	16.35	0.46	150.0	± 9.6 %
		Y	5.05	67.19	16.62		150.0	
		Z	4.91	66.86	16.35		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.74	66.69	16.15	0.46	150.0	± 9.6 %
		Y	4.89	67.04	16.44		150.0	
		Z	4.75	66.68	16.15		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.77	67.08	16.52	0.46	150.0	± 9.6 %
		Y	4.91	67.41	16.78		150.0	
		Z	4.78	67.07	16.52		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.65	66.47	15.92	0.46	150.0	± 9.6 %
		Y	4.80	66.85	16.23		150.0	
		Z	4.66	66.47	15.92		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.74	67.23	16.61	0.46	150.0	± 9.6 %
		Y	4.87	67.51	16.84		150.0	
		Z	4.75	67.21	16.60		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.76	67.06	16.53	0.46	150.0	± 9.6 %
		Y	4.90	67.36	16.78		150.0	
		Z	4.77	67.05	16.53		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.10	63.42	14.47	0.46	130.0	± 9.6 %
		Y	1.22	65.16	15.85		130.0	
		Z	1.08	63.24	14.41		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.11	63.89	14.77	0.46	130.0	± 9.6 %
		Y	1.24	65.79	16.22		130.0	
		Z	1.09	63.70	14.70		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.08	73.84	17.41	0.46	130.0	± 9.6 %
		Y	4.49	96.37	26.07		130.0	
		Z	1.00	73.13	17.22		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.13	68.08	16.84	0.46	130.0	± 9.6 %
		Y	1.43	72.28	19.34		130.0	
		Z	1.10	67.75	16.73		130.0	

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10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.50	66.27	16.10	0.46	130.0	± 9.6 %
		Y	4.63	66.61	16.40		130.0	
		Z	4.50	66.26	16.10		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.52	66.45	16.17	0.46	130.0	± 9.6 %
		Y	4.65	66.77	16.46		130.0	
		Z	4.52	66.43	16.17		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.70	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.85	67.04	16.62		130.0	
		Z	4.71	66.70	16.33		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.60	66.85	16.43	0.46	130.0	± 9.6 %
		Y	4.75	67.20	16.72		130.0	
		Z	4.61	66.83	16.43		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.36	66.09	15.70	0.46	130.0	± 9.6 %
		Y	4.52	66.52	16.06		130.0	
		Z	4.37	66.07	15.70		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.41	66.16	15.74	0.46	130.0	± 9.6 %
		Y	4.57	66.57	16.09		130.0	
		Z	4.42	66.15	15.74		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.50	66.88	16.37	0.46	130.0	± 9.6 %
		Y	4.65	67.26	16.67		130.0	
		Z	4.51	66.86	16.37		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.30	65.86	15.49	0.46	130.0	± 9.6 %
		Y	4.47	66.30	15.86		130.0	
		Z	4.31	65.85	15.49		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.50	66.27	16.10	0.46	130.0	± 9.6 %
		Y	4.63	66.61	16.40		130.0	
		Z	4.50	66.26	16.10		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.52	66.45	16.17	0.46	130.0	± 9.6 %
		Y	4.65	66.77	16.46		130.0	
		Z	4.52	66.43	16.17		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.70	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.85	67.04	16.62		130.0	
		Z	4.71	66.70	16.33		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.60	66.85	16.43	0.46	130.0	± 9.6 %
		Y	4.75	67.20	16.72		130.0	
		Z	4.61	66.83	16.43		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.36	66.09	15.70	0.46	130.0	± 9.6 %
		Y	4.52	66.52	16.06		130.0	
		Z	4.37	66.07	15.70		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.41	66.16	15.74	0.46	130.0	± 9.6 %
		Y	4.57	66.57	16.09		130.0	
		Z	4.42	66.15	15.74		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.50	66.88	16.37	0.46	130.0	± 9.6 %
		Y	4.65	67.26	16.67		130.0	
		Z	4.51	66.86	16.37		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.30	65.86	15.49	0.46	130.0	± 9.6 %
		Y	4.47	66.30	15.86		130.0	
		Z	4.31	65.85	15.49		130.0	

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10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.65	66.36	16.22	0.46	130.0	± 9.6 %
		Y	4.78	66.66	16.49		130.0	
		Z	4.65	66.34	16.22		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.79	66.67	16.35	0.46	130.0	± 9.6 %
		Y	4.93	66.99	16.62		130.0	
		Z	4.79	66.66	16.35		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.70	66.55	16.21	0.46	130.0	± 9.6 %
		Y	4.85	66.90	16.51		130.0	
		Z	4.71	66.54	16.21		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.76	66.73	16.38	0.46	130.0	± 9.6 %
		Y	4.91	67.07	16.66		130.0	
		Z	4.76	66.72	16.38		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.72	66.69	16.28	0.46	130.0	± 9.6 %
		Y	4.87	67.03	16.56		130.0	
		Z	4.73	66.67	16.28		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.66	66.67	16.27	0.46	130.0	± 9.6 %
		Y	4.81	67.03	16.56		130.0	
		Z	4.66	66.65	16.27		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.61	66.55	16.13	0.46	130.0	± 9.6 %
		Y	4.76	66.93	16.45		130.0	
		Z	4.61	66.53	16.13		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.59	66.77	16.39	0.46	130.0	± 9.6 %
		Y	4.74	67.15	16.70		130.0	
		Z	4.60	66.76	16.39		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.32	66.88	16.47	0.46	130.0	± 9.6 %
		Y	5.44	67.19	16.70		130.0	
		Z	5.33	66.88	16.48		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.45	67.29	16.65	0.46	130.0	± 9.6 %
		Y	5.56	67.56	16.85		130.0	
		Z	5.45	67.29	16.66		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.34	67.05	16.54	0.46	130.0	± 9.6 %
		Y	5.46	67.33	16.76		130.0	
		Z	5.35	67.04	16.55		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.46	67.19	16.54	0.46	130.0	± 9.6 %
		Y	5.55	67.37	16.70		130.0	
		Z	5.47	67.18	16.53		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.52	67.44	16.80	0.46	130.0	± 9.6 %
		Y	5.63	67.66	16.97		130.0	
		Z	5.53	67.43	16.80		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.40	67.11	16.62	0.46	130.0	± 9.6 %
		Y	5.45	67.17	16.71		130.0	
		Z	5.40	67.08	16.61		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.45	67.23	16.67	0.46	130.0	± 9.6 %
		Y	5.55	67.47	16.87		130.0	
		Z	5.46	67.22	16.67		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.18	66.51	16.16	0.46	130.0	± 9.6 %
		Y	5.31	66.84	16.41		130.0	
		Z	5.19	66.49	16.16		130.0	

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10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.48	65.64	15.83	0.46	130.0	± 9.6 %
		Y	4.61	65.97	16.11		130.0	
		Z	4.49	65.63	15.83		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.64	66.01	15.99	0.46	130.0	± 9.6 %
		Y	4.80	66.37	16.28		130.0	
		Z	4.65	66.00	15.99		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.54	65.84	15.81	0.46	130.0	± 9.6 %
		Y	4.69	66.23	16.12		130.0	
		Z	4.54	65.83	15.81		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.59	66.00	15.98	0.46	130.0	± 9.6 %
		Y	4.74	66.38	16.28		130.0	
		Z	4.59	65.99	15.98		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.50	65.80	15.82	0.46	130.0	± 9.6 %
		Y	4.66	66.19	16.13		130.0	
		Z	4.51	65.79	15.82		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.50	65.94	15.85	0.46	130.0	± 9.6 %
		Y	4.67	66.35	16.18		130.0	
		Z	4.51	65.93	15.86		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.50	65.79	15.72	0.46	130.0	± 9.6 %
		Y	4.67	66.23	16.06		130.0	
		Z	4.51	65.78	15.72		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.45	65.99	15.96	0.46	130.0	± 9.6 %
		Y	4.61	66.40	16.28		130.0	
		Z	4.46	65.98	15.96		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.50	65.64	15.59	0.46	130.0	± 9.6 %
		Y	4.66	66.04	15.92		130.0	
		Z	4.50	65.63	15.59		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.13	66.09	16.06	0.46	130.0	± 9.6 %
		Y	5.26	66.43	16.30		130.0	
		Z	5.14	66.09	16.06		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.20	66.29	16.13	0.46	130.0	± 9.6 %
		Y	5.32	66.60	16.36		130.0	
		Z	5.21	66.29	16.14		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.09	66.30	16.15	0.46	130.0	± 9.6 %
		Y	5.21	66.61	16.38		130.0	
		Z	5.10	66.29	16.15		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.10	66.08	15.98	0.46	130.0	± 9.6 %
		Y	5.23	66.42	16.22		130.0	
		Z	5.11	66.08	15.98		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.18	66.12	16.05	0.46	130.0	± 9.6 %
		Y	5.32	66.47	16.30		130.0	
		Z	5.19	66.12	16.05		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.20	66.27	16.24	0.46	130.0	± 9.6 %
		Y	5.32	66.58	16.46		130.0	
		Z	5.20	66.27	16.25		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.21	66.44	16.32	0.46	130.0	± 9.6 %
		Y	5.33	66.73	16.53		130.0	
		Z	5.22	66.44	16.33		130.0	

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10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.08	65.93	15.93	0.46	130.0	± 9.6 %
		Y	5.21	66.29	16.19		130.0	
		Z	5.09	65.93	15.94		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.27	66.16	16.11	0.46	130.0	± 9.6 %
		Y	5.40	66.47	16.35		130.0	
		Z	5.28	66.15	16.12		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.52	66.79	16.49	0.46	130.0	± 9.6 %
		Y	5.74	67.39	16.86		130.0	
		Z	5.54	66.83	16.51		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.45	66.17	16.04	0.46	130.0	± 9.6 %
		Y	5.55	66.49	16.26		130.0	
		Z	5.46	66.17	16.04		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.69	66.77	16.30	0.46	130.0	± 9.6 %
		Y	5.78	67.03	16.49		130.0	
		Z	5.69	66.76	16.31		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.46	66.20	15.95	0.46	130.0	± 9.6 %
		Y	5.58	66.58	16.20		130.0	
		Z	5.47	66.20	15.96		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.54	66.30	15.99	0.46	130.0	± 9.6 %
		Y	5.66	66.63	16.22		130.0	
		Z	5.55	66.30	16.00		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.89	67.55	16.62	0.46	130.0	± 9.6 %
		Y	6.06	68.03	16.92		130.0	
		Z	5.91	67.58	16.64		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.82	67.43	16.76	0.46	130.0	± 9.6 %
		Y	5.97	67.86	17.02		130.0	
		Z	5.83	67.44	16.77		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.66	66.86	16.49	0.46	130.0	± 9.6 %
		Y	5.75	67.08	16.64		130.0	
		Z	5.67	66.85	16.49		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.53	66.40	16.08	0.46	130.0	± 9.6 %
		Y	5.65	66.74	16.31		130.0	
		Z	5.53	66.39	16.09		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.51	66.41	16.15	0.46	130.0	± 9.6 %
		Y	5.63	66.76	16.38		130.0	
		Z	5.51	66.41	16.15		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.38	65.73	15.53	0.46	130.0	± 9.6 %
		Y	5.52	66.14	15.81		130.0	
		Z	5.39	65.73	15.54		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.88	66.55	16.14	0.46	130.0	± 9.6 %
		Y	5.96	66.85	16.34		130.0	
		Z	5.88	66.55	16.15		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.02	66.92	16.31	0.46	130.0	± 9.6 %
		Y	6.11	67.22	16.51		130.0	
		Z	6.03	66.93	16.32		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.02	66.89	16.27	0.46	130.0	± 9.6 %
		Y	6.12	67.20	16.48		130.0	
		Z	6.02	66.89	16.28		130.0	

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10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.99	66.82	16.28	0.46	130.0	± 9.6 %
		Y	6.09	67.15	16.50		130.0	
		Z	6.00	66.82	16.29		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.99	66.81	16.22	0.46	130.0	± 9.6 %
		Y	6.10	67.17	16.45		130.0	
		Z	5.99	66.82	16.23		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.05	66.80	16.24	0.46	130.0	± 9.6 %
		Y	6.14	67.07	16.42		130.0	
		Z	6.06	66.80	16.24		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.08	67.00	16.51	0.46	130.0	± 9.6 %
		Y	6.18	67.31	16.70		130.0	
		Z	6.09	67.00	16.51		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.93	66.71	16.25	0.46	130.0	± 9.6 %
		Y	6.02	67.01	16.46		130.0	
		Z	5.93	66.71	16.25		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.03	67.03	16.43	0.46	130.0	± 9.6 %
		Y	6.18	67.49	16.72		130.0	
		Z	6.04	67.04	16.44		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.17	67.10	16.43	0.46	130.0	± 9.6 %
		Y	6.47	67.97	16.92		130.0	
		Z	6.18	67.13	16.45		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	19.17	110.50	37.83	9.30	60.0	± 9.6 %
		Y	100.00	147.85	47.85		60.0	
		Z	16.64	107.87	37.15		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	16.90	108.32	37.31	9.30	60.0	± 9.6 %
		Y	88.18	146.06	47.63		60.0	
		Z	14.61	105.54	36.57		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.50	60.79	7.93	0.00	150.0	± 9.6 %
		Y	0.64	62.89	10.17		150.0	
		Z	0.50	60.83	7.99		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.55	66.61	16.13	2.23	80.0	± 9.6 %
		Y	3.97	68.09	17.10		80.0	
		Z	3.49	66.41	16.10		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.10	66.10	16.44	2.23	80.0	± 9.6 %
		Y	4.44	67.21	17.15		80.0	
		Z	4.04	65.91	16.40		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.10	65.77	16.48	2.23	80.0	± 9.6 %
		Y	4.40	66.84	17.14		80.0	
		Z	4.04	65.58	16.43		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.17	65.74	16.53	2.23	80.0	± 9.6 %
		Y	4.46	66.82	17.18		80.0	
		Z	4.11	65.55	16.47		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	75.07	110.20	27.10	10.00	50.0	± 9.6 %
		Y	100.00	114.77	28.62		50.0	
		Z	100.00	113.64	27.73		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	110.55	25.39	6.99	60.0	± 9.6 %
		Y	100.00	111.82	26.31		60.0	
		Z	100.00	110.88	25.38		60.0	

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10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	107.54	22.75	3.98	80.0	± 9.6 %
		Y	100.00	110.49	24.46		80.0	
		Z	100.00	108.31	22.90		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	104.54	20.30	2.22	100.0	± 9.6 %
		Y	100.00	111.15	23.54		100.0	
		Z	100.00	104.99	20.30		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	5.09	77.36	11.00	0.97	120.0	± 9.6 %
		Y	100.00	111.11	21.88		120.0	
		Z	1.05	68.52	8.18		120.0	

$^{\varepsilon}$ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.